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ANTIRRHINUM

MARY ELLEN. Trade Pkt., \$2.50.

MARGARET. Trade Pkt., \$2.00.

DORCAS JANE. Trade Pkt., \$2.50.

Vaughan's MID-SUMMER OFFER

June 1948

601 W. JACKSON BLVD., CHICAGO 6



47 BARCLAY ST., NEW YORK 7



# "SNAPS" For Greenhouse Forcing

Snapdragon being one of the leading Florist Greenhouse crops, we have followed very closely the development of the Winter Flowering or Forcing type and offer the following approved varieties.

There are mainly three classes of Snapdragons; early, intermediate and spring flowering. The early varieties will flower much better in the North during winter months under low-light intensity and low temperatures, whereas planted in the South, with more light, they set buds earlier and do not make as large a spike. Second-early or intermediates are fairly good for winter, but better after "Mums", and the late or spring flowering varieties, which are stronger growing and more vegetative, should be used only after "Mums". First sowings are generally made between June 15th and July 10th, and selection of varieties made according to locality and climatic conditions. Sowing of seed in Summer should be done in the coolest and shadiest spot available, and with good circulation of air. The soil for growing should be porous and well drained. Raised benches are preferable to ground beds for winter crop. High nutrition, especially Nitrogen, and water combined during the dark days should be avoided as the results will be soft growth and off-colored shatterly flowers.

Becoming more popular each year is the single-stem culture, used almost entirely in the growing of Stocks. This method produces better quality and more uniform spikes as the vigor and strength of the plant are devoted to one flower spike. Do not make sowings, however, for single-stem culture until after Mid-August, for with the light days of early Fall plants bloom too short. Sowings can be made periodically through the Fall and Winter. Where this method is used seed can be sowed a month later than plants that are pinched for the same blooming time. This method takes just a few more seeds and plants, but the results of the higher quality crop will more than repay. A spacing of 4 x 6 inches is used.

In the early pink and rose shades, **Christmas Cheer** is the finest rose-pink. **Dorcas Jane** illustrated in color on the cover, is a beautiful light pink, slightly larger flower than Mary Ellen and a little earlier, having a clean habit of growth and fine long spikes. **Maryland Pink** and **Mary Ellen** the last named illustrated in color on the cover, are excellent light pinks. **Better Times** is a deep American Beauty rose. These five are first-cross hybrids from known parentage; excellent early varieties and give maximum production in the winter months. **Yoder's No. 33**, an early long stemmed medium rose pink of Mary Ellen type and **Ball's Early Pink** are also in the early pink class.

In the next or intermediate type, the most popular are the old standby **Cheviot Maid** Reselected and **Delworth Supreme**, the finest Cheviot Maid selection today. Also popular are **Rose Queen**, **Gilbert's Pink Supreme**, **La France** and **Daybreak**. Most of this group can be planted for winter flowering but the early sorts are more productive in our latitude during the dark winter days.

For after "Mums", **Peggy Schumann** is a fine rose with heavy stems and fine spikes, as is **Light Pink Peggy** is another. **Marie Louise** and **St. Louis Pink** are both fine light pinks. **America**, **New Cincinnati**, with its fine long spike, fit in here.

In the early whites, **Koester's White** and **White Wonder Improved** are early pure whites, the latter slightly heavier. **Margaret**, illustrated in color on the cover, is considered by most growers

to be the finest winter white on the market, a fine winter blooming white with long spike having same type growth as Mary Ellen pink, but slightly earlier and closer set ivory white spike. **Schlegel's White** is another wonderful early white with a long tapering spike. Next in earliness are **Feist's White**, a true sport of Cheviot Maid Pink, and **Peace**. **Lucky Strike Improved** is a popular pure white, growing three to four feet with full spike of flowers. It blooms earlier than the original. Still grown by many for early, mid-season and late. **Early Westover White Fringed** is a selection of this late sort. For after "Mums" or Spring Flowering, **Marion White**, **Snow White**, **Junglewood White** and **White Peggy Schumann**. Also a new all double variety **Snowdrift** which is a fine novelty and should be sowed only to follow "Mums" for spring flowering.

In the yellows, the earliest are **Yellow Wonder**, **Ceylon Court**, dark selection which is heavier and darker, and **Goldie** which resembles a shorter Ceylon Court. **Schlegel's Yellow** produces a good spike, although lighter in color. **Frances Schlegel** is a deep golden yellow having a good stem and spike. **Gilbert's Yellow**, fits in here as it resembles **Ethel** but has a sturdier stem and freer branching habit topped by a quality spike. **Carol Jean** has a larger flower and is slightly lighter than **Ethel** which remains the most popular yellow on the market although a little later to flower. To follow "Mums" are **Sunray**, **Yellow Peggy Schumann**, **Coates' Yellow**, **Klondyke Supreme** and **Junglewood Yellow**. **Witterstaetter's Yellow**, is a fine new introduction for after "Mum" planting and is far superior to many we are growing today, having a longer spike, larger flowers and a deep yellow color. Vigorous non-grassy growth.

In the bronzes, the finest early is **Lady Dorothy**, a new reddish bronze **Suntan** and **Sunlite**, both early but considerably lighter in color. **Afterglow**, which is slightly later and heavier, still is very popular. **Gilbert's Bronze Beauty** fits in here with its long spike. **Bronze Christmas Cheer**, not as early as its name implies, is an open pollinated variety of heavier growth. **Talisman**, a nearly all-double, is a retail novelty and an early bloomer. For after "Mums", there are **Glorious**, an intense Afterglow color, **Ideal Improved**, **Miss Wooster**, **Bronze Peggy Schumann** and **Witterstaetter's Bronze**, a clear golden bronze of this year's introduction, with a large well spaced spike, that can be pinched low.

In the Reds an excellent new variety is **Shisler's Red**, which blooms as early as our earliest whites and pinks being, a glowing wine-red, 100% true to color, uniform growth with an excellent stem free of grass. If sown July 5th and pinched September 15th, it will bloom from Thanksgiving on. For after "Mums" **Velvet Supreme**, a scarlet-crimson, and longer spiked **Velvet Beauty** are popular, being joined by **Schumann's Velvet Red**.

In the lilacs or lavenders, **Windmill Lilac** is the earliest, although not a winter producer. **Witterstaetter's Orchid**, a large well spaced spike, with a very rich and even orchid color. Good grower, can be pinched low, a mid-season variety. **Ball Lavender** and **Schumann's Lavender**, are later and to be planted after "Mums" as all in this class should be.

Varieties followed by (X) are sold in 1/2 trade pkts. at 60c each. Varieties preceded by a star (\*) are best for early winter flowering.

## WHITE

### NEW DOUBLE PURE WHITE "SNAP"

**Snapdragon Double Snowdrift.** A fine novelty of with spike of purest white. Comes 90% true double from seed. Sow to follow "Mums". 1/2 Trade pkt., (1,000 seeds), \$1.75; Trade pkt., (2,000 seeds), \$3.00.

Trade  
pkt.

**Feist's White** (West Hills). A true sport of Cheviot Maid. Clear white with a touch of yellow on the lip. .... \$2.00

**Junglewood White** (Junglewood Greenhouses). Dazzling white; deep green foliage; tall, sturdy, whiplike stems; long spikes of closely set florets; a shatterproof quality, which permits an unusual number of flowers to be open before cutting, must be sown early. .... 1/2 Trade pkt., \$1.25 2.00

VAUGHAN'S SEED CO., gives no warranty express or implied, as to the productiveness of any seeds, bulbs or plants; it sells; nor does it warrant fertilizers other than in respect to data required of seller by statutes. It is expressly agreed that the limit of liability for all claims for loss or damages due to any cause shall be in a sum no greater than the invoice price of the goods and in no case shall it be responsible for loss or damage of the crop.

601 West Jackson Boulevard, CHICAGO 6

47 Barclay Street, NEW YORK 7

**\*Koester's White.** It is earlier and a stronger grower than <sup>Trade</sup> White Wonder and just as pure white and clean a grower and more substantial spike of slightly ruffled flowers. .... 1.50

**\*Lucky Strike Improved.** Popular pure white, grows three to four feet with full spike of flowers. Blooms earlier than the original; does not drop or shatter. .... 1.50

**\*Margaret** (Yoder) is a winterblooming ivory white, whiter than the old Lucky Strike but not as white as White Wonder. The stem is exceptionally stiff and there is almost no sidegrowth. The florets are of medium size. The florets last a long time and do not shed. (See illustration in color on front cover page) .... 2.00

**Marion White** (Schumann). A real white, large close flowering spike on a strong, sturdy stem, throwing small foliage. .... 1.50

**Peace** (Ball). Large closely set florets of the pure white on long, wiry stems. The unusually rich dark green foliage contrasts vividly with the snowy whiteness of its flowers. .... 1.50

**\*Schlegel's White.** Early and vigorous grower for early and late planting. .... 1.50

### This List Cancels All Previous Offers

**Cash Discounts on Flower Seeds:** On all orders for flower seeds, except Cyclamen totaling less than \$25.00 5%, and over \$25.00; 8% may be deducted if cash is enclosed. See page 5 for Special Discount on Cyclamen Giganteum varieties Vogt's Double Cyclamen prices are net.



# "SNAPS" For Greenhouse Forcing—Cont'd

WHITE—Continued

- Snow White** (Windmill). Late white for Easter and Mothers' Day. A glorious white for weddings and church decorations. Stately spikes of white on long stems..... Trade pkt. \$1.50
- Westover's Fringed Early White** (Windmill). An early development of Westover's Fringed White—an ideal wedding bouquet white—good early or late..... 1.50
- White Peggy Schumann.** Has the same characteristics of the popular Pink Peggy but blooms earlier..... 2.00
- \*White Wonder, Improved.** Longer and better stems with flowers well placed—keeping the pure white color of original. 1.50

## BRONZE SHADES

### WITTERSTAETTER'S BRONZE

A strong grower, large well spaced spike with a bright clear gold color; can be pinched low. Spring variety; should be planted after "Mum" crop. Trade pkt., \$2.50.

- Afterglow.** Golden bronze Spring flowering X..... Trade pkt. \$1.00
- Bronze Christmas Cheer** (Schlegel). A bright copper hood with lower part shading from deep gold to apricot. Well placed 1¾ to 2 inch individual florets. No grassy growth. 2.00
- Bronze Peggy Schumann.** Same type as other Schumann varieties but flowers earlier than Pink Peggy..... 2.00
- Gilbert's Bronze Beauty.** This variety is early flowering; seed sown in July blooms in November through Spring. Flowers have upper lips of dark brown with lower lips yellowish bronze..... 1.50
- Glorious** (Frank). A highly attractive reddish copper with yellow lip. Popular in Chicago retail trade. Early flowering, none quicker on a comeback after first crop is off..... 1.00
- Ideal Improved** (Hodaly). A blend of carmine rose shading into rich orange, tipped with lemon-yellow. Lips golden yellow, slightly suffused with carmine, white throat. Winter-flowering strain, blooming in four months from seed 1.50
- \*Lady Dorothy.** Red-bronze with a glowing quality under artificial light. The color is somewhat similar to Glorious, but it is a true winter-flowering variety..... 3.00
- Miss Wooster.** The color is a dazzling rich dark bronze. It is an ideal shipping variety..... 1.00
- \*Sunlight.** Improved Suntan, finest early golden bronze X... 1.00
- \*Suntan.** Rose shade of tan with tinge of yellow on lip. Early blooming X..... 1.00
- Talisman** (Windmill). Improved strain, all double, all bronze, true to type and color, early and continuous, a fancy flower for retail trade. Excellent for combination.... 2.00

## LAVENDER

### WITTERSTAETTER'S ORCHID

A large well spaced spike, with a very rich and even orchid color. Good grower, can be pinched low; mid-season variety. Trade pkt., \$2.50.

- Ball's Lavender.** A rich lilac lavender, fine spike and long stemmed..... Trade pkt. \$1.50
- Schumann's Lavender.** Excellent, large flowered rosy lavender for spring blooming. Full heavy spikes..... 2.00
- \*Windmill's Lilac.** Excellent orchid, true to type and color, early, hard wiry stems, small foliage, productive. Earliest in this color..... 2.0

## PINK AND ROSE SHADES

- America** (Hodaly). Brilliant rose pink with orange lip, blending into pure lemon. The heads are sixteen to twenty-five inches long, carrying well set, large florets..... 1.50
- \*Ball's Early Pink.** Rose pink..... 1.00
- \*Better Times** (Windmill). A real American Beauty rose red. It is a first cross like Christmas Cheer but a deeper color. Excellent for Christmas and Valentine's Day..... 2.00



ANTIRRHINUM Christmas Cheer, Ethel, Better Times

PINK AND ROSE SHADES—Continued

- Cheviot Maid.** Reselected. Deep rose-pink X..... Trade pkt. \$1.00
- \*Christmas Cheer** (Windmill). Conceded the best early pink. Fine spike, excellent for Christmas and comes back for second and third crops..... ½ Trade pkt. \$1.75 3.00
- Daybreak.** Strong, vigorous pink. Same shade as the Rose Briarcliffe. Heavy winter producer X..... 1.00
- Delworth's Supreme.** A Canadian introduction by the well known grower Cecil Delworth. It is a selection of Cheviot Maid made over a period of ten years for earliness and uniformity..... 1.50
- \*Dorcas Jane** (Yoder). Light pink slightly larger flower than Mary Ellen and shade deeper and a little earlier. With a clean habit of growth and outstanding vigor. (See illustration in color on front cover page)..... 1,000 seeds \$1.50 (2,000 seeds) 2.50
- Gilbert's Pink Queen Supreme.** This is several shades deeper than Cheviot Maid Supreme and is particularly noted for the fact it produces perfect flower-heads..... 1.50
- La France** (Windmill). True strain, single plant selection, 100% true to type and color, ruffled satiny pink, excellent spikes and stem..... 1.50
- Light Pink Peggy Schumann.** Blooms a little earlier than the darker variety..... 2.00
- Marie Louise.** Beautiful sea-shell pink. Strong and free-branching, producing long strong stems with compact flower spikes, with flowers closely set..... 2.00
- \*Mary Ellen** (Yoder) is a light rose pink, blooming freely and evenly in winter. It is characterized by a stiff stem with very little side growth and a long head with medium sized, evenly spaced florets. (See illustration in color on front cover page)..... ½ trade pkt., \$1.50 2.50
- \*Maryland Pink** (Winkler). Early, light pastel pink. Large flowers..... ½ trade pkt., \$1.75 3.00
- New Cincinnati** (Witterstaetter). The finest light rose X... 1.00
- Peggy Schumann Pink.** A large close-flowering spike on a strong, sturdy stem; will not shatter and produces no blind shoots..... 2.00



**"SNAPS" For Greenhouse Forcing—Cont'd**

PINK AND ROSE SHADES—Continued

Tr. pkt.

- Rose Queen.** Dark pink X..... \$1.00
- St. Louis Pink (Rowe).** Beautiful shade of silvery pink, the well placed flowers being produced on wiry stiff stems. Flower spikes being 10 to 12 inches in length and the flowers do not shatter. Sow early. Spring bloomer..... 1.50
- \*Yoder's No. 33.** One of the parents of Mary Ellen is uniform light pink, slightly deeper than Mary Ellen but with the same long stems and early flowering habit..... 1.50

**RED**

- Schumann's Velvet Red** is a true dark red velvet, an early bloomer..... 2.00
- \*Shisler's Red,** a glowing wine-red, 100% true to color, uniform growth with an excellent stem free of grass. If sown July 5th and pinched September 15th, it will bloom from Thanksgiving on..... 2.00
- Velvet Beauty.** Rich American Beauty crimson..... 1.00
- Velvet Supreme.** A rich velvety scarlet crimson..... 1.50

**YELLOW****WITTERSTAETTER'S YELLOW**

A large floreted strong deep yellow spike, vigorous non-grassy growth; can be pinched low. Spring variety; should be planted after "Mum" crop. Trade pkt., \$2.50.

- \*Carol Jean (Dornacher).** A shade lighter than Ethel. Has no wild growth whatever. Will not shatter..... 2.00
- \*Ceylon Court. Dark Selection.** Canary yellow. Our introduction X..... 1.00
- Coate's Yellow Perfection.** Deep golden yellow. Spring flowering X..... 1.00
- \*Ethel.** Is a large, bright yellow flower, winter bloomer, well formed head, good stems, easy to grow and shatterproof. 1.50
- Frances Schlegel.** In color a golden daffodil yellow, retaining color under any weather conditions; a good stem with no excess grassy growth and an excellent producer (averages five spikes to a plant)..... 2.00
- \*Gilbert's Yellow.** Bright yellow. Sown July 1st and pinched September 15th, will start to bloom in November and blooms the whole season. Gives a high percentage of first grade flowers..... 2.00
- \*Goldie (Windmill).** Deep early yellow..... 1.50
- Junglewood Lemon.** Of a cream or lemon shade, considerably lighter than yellow. Has identical growing characteristics to the Junglewood Yellow. ½ Trade pkt., \$1.25 2.00
- Junglewood Yellow.** Large rich yellow flower. Vigorous, strong grower. Exceptionally heavy spike and stem. Mid-season blooming. Remarkably free of side growth, non-shattering. Height about four feet. Must be sown early. ½ Trade pkt. \$1.25 2.00
- Klondyke Supreme.** Deep intense golden yellow with extra large individual florets..... 1.00
- \*Schlegel's Yellow.** Early and vigorous grower for early and late flowering..... 1.50
- Sunray.** Large well placed yellow flowers on strong stems, a good shipper, has no grassy growth..... 1.50
- Yellow Peggy Schumann.** Has all the characteristics of Pink Peggy. Earlier and far superior to the old Schumann Yellow..... 2.00
- \*Yellow Wonder** Early and free flowering. Has a good stiff stem, a fine commercial variety..... 1.50
- Greenhouse Varieties Vaughan's Special Mixture.** With pinks predominating..... 1.00

**Asparagus**

**Plumosus Nanus.** (Lath House grown.) Carefully harvested, hand-picked, plump, well-matured seed of this is a specialty with us. 100 seeds, 30c; 250 seeds, 65c; 1,000 seeds, \$2.00; 5000 seeds, \$9.00; 10,000 seeds, \$17.00.

**Sprengeri.** 100 seeds, 30c; 250 seeds, 65c; 1,000 seeds, \$2.00; 5000 seeds, \$9.00; 10,000 seeds, \$17.00.

**Begonias—Fibrous-Rooted**

We have divided this family into three sections: the dwarf growing 6 to 8 in.; those of medium height 9 to 11 in.; the taller ones 12 in. and over.

**DWARF, 6 to 8 INCHES**

- Pink Pearl.** Of dwarf, compact habit—6 to 8 inches high, Trade this new Begonia is one of the very best for pot culture. The plants form perfect balls and the flowers are well above the fresh green foliage. We recommend it..... 2,000 seeds \$1.50
- Red Pearl.** Same as above in habit, and blooming habit. Color, brilliant dark scarlet..... 2,000 seeds 1.50
- Gracilis Adeline (Improved Darling).** Very dwarfest habit; bright pink flowers and green foliage, very attractive..... ¼ oz., \$2.50 1.00
- Ball Deep Rose.** Identical in habit to Adeline from which it was selected. Under winter and spring conditions the color is a deep rich rosy red which gradually fades to a bright luminous pink with the coming of warmer weather..... ¼ oz., \$2.75; ½ oz., \$5.00 1.00
- Ball Red.** Fairly dwarf in growth and of uniform, perfectly rounded habit. The plants are literally covered with medium large flowers of the brightest scarlet red imaginable. Much more brilliant and intense than King of the Reds or Luminosa..... ¼ oz., \$2.75; ½ oz., \$5.00 1.00
- Bois de Vaux Rose.** Vivid rose, floriferous pyramidal growth, green metallic foliage, decorated with narrow red border, compact, upright..... ¼ oz., \$2.25; ½ oz., \$4.00 1.00
- Compacta Tausendshon.** A fine dwarf bedding variety, flowers lustrous rose. Absolutely even in growth and color. The plants are one mass of bloom. 6 in..... 1.25
- Dwarf Luminosa.** Bright scarlet, free flowering. Excellent pot plant..... ¼ oz., \$3.00 1.00
- Fire Sea. (Blaze of Fire).** Fiery red flowers, green foliage. 8 in..... ¼ oz., \$2.25; ½ oz., \$4.00 1.00
- King of the Reds.** Very dwarf, glowing scarlet, foliage, green edged bronze..... ¼ oz., \$2.50; ½ oz., \$4.50 1.00
- Winter Romance.** Carmine rose, green foliage..... ¼ oz., \$2.25; ½ oz., \$4.00 1.00
- Vaughan's Special Mixture of Dwarf Varieties** for pots and bedding..... ¼ oz., \$2.50; ½ oz., \$4.50 1.00

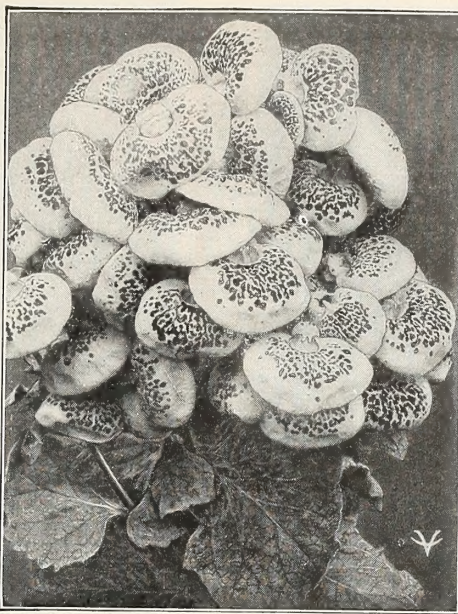
**MEDIUM, 9 to 11 INCHES**

- Carmen.** Bright rose flowers, bronze foliage... ¼ oz., \$2.50 1.00
- Elegance.** The plant is of bushy habit, medium tall and most free flowering. The individual flowers are large, pink with white center, foliage clear green..... 1.00
- Enchantress.** Fresh rose color..... ¼ oz., \$2.50 1.00
- Indian Maid.** 10 in. Bright deep scarlet buds and flowers with deep lustrous bronze foliage..... ¼ oz., \$2.50 1.00
- Luminosa.** Deep dark scarlet flowers, foliage reddish brown. 10 in..... ¼ oz., \$3.00 1.00
- Prima Donna.** Limpid rose, shading to carmine, most beautiful. 10 to 12 in..... ¼ oz., \$2.00; ½ oz., \$3.50 1.00
- Salmon.** Glowing shade of salmon..... .50
- Scandinavia Pink.** An outstanding large-flowered pink variety for pots. Plants are of good branching habit with dark green foliage. Excellent for winter flowering..... ¼ oz., \$2.75; ½ oz., \$5.00 1.00
- Scandinavia Red.** Like above except in color..... ¼ oz., \$2.75 1.00
- Snow.** Pure white blossoms; green foliage..... 1.00

**TALL, 12 INCHES AND UP**

- Christmas Cheer Red.** A very large-flowered variety, color dark crimson-scarlet..... ¼ oz., \$2.00; ½ oz., \$3.50 1.00
- Christmas Pink.** Identical to above variety only the color is a delightful shade of warm rose-pink..... ¼ oz., \$2.00; ½ oz., \$3.50 1.00
- Homeran.** All these varieties are strong, vigorous, branching early if pinched back and have some of the characteristics of both parents; a fibrous and a tuberous, taking their root system from the fibrous.
- Homeran Crimson.** Flowers dark crimson, a little larger than Christmas Cheer, foliage darker green than Homeran Rose. 15 to 18 in..... 1.00
- Homeran Rose.** A glorious new rose colored Begonia with extra large flowers, clear Begonia green foliage. 15 to 18 in..... ¼ oz., \$2.50 1.00





CALCEOLARIA Flower Cloud

CALCEOLARIA Grandidora Extra Choice Mixed

CALCEOLARIA Hybrida Grand. Triumph

BEGONIAS TALL, 12 INS. and up—Continued

Tr. pkt.

- Homeran White.** Large oval shaped green leaves. Flowers are pure white with the usual yellow center. 12 to 15 in...  $\frac{1}{64}$  oz., \$2.50 1.00
- Ile de France.** The best white. The foliage is light green. The flowers are  $1\frac{1}{4}$  in. to  $1\frac{1}{2}$  in., pure white, with bright yellow stamens. They grow in compact form not to exceed 12 in. in height and approximately the same width. Fine for Easter and Mother's Day...  $\frac{1}{64}$  oz., \$2.00 1.00
- Illusion.** Is a masterpiece among the Begonias. Flowers attractive rose with a white blotch on every petal. Early flowering. Does well in sun or shade. Foliage is true Begonia green. 10 to 12 in...  $\frac{1}{64}$  oz., \$2.00 1.00
- Masterpiece.** One of the largest flowered fibrous rooted Begonias, and the clear rose-pink blossoms have made it a great favorite. The flowers fairly cover the foliage...  $\frac{1}{64}$  oz., \$2.25;  $\frac{1}{32}$  oz., \$4.00 1.00
- Vernon.** Flowers blood red, dark leaves... .50
- Vaughan's Special Mixture all Varieties.**...  $\frac{1}{64}$  oz., \$1.50;  $\frac{1}{32}$  oz., \$2.50 1.00
- Double Tuberous Rooted Vaughan's Special Mixture.** This cream of a specialist's collection contains the lovely camellia and rose flowered forms together with the double fringed types in charming colors from dainty light shades to the richer and darker tones. Leaflet on culture supplied with seed... 2.50

## Calceolaria Hybrida

These Make Wonderful Plants for Easter or Mother's Day

For Calceolarias, use a mixture of loam, leafmold and sharp sand. This mixture is suitable both for the seed pans and the pots into which the seedlings, when ready, should be planted. Perfect drainage is important. Calceolaria seed being very fine the seedling should be done with great care and it is suggested that one use a sheet of white paper on which a tablespoon of white sand is distributed. Then shake the seed on top of this sand and mix thoroughly. Then, sprinkle this mixture on the soil of the seed pan, dusting surface with a little fine sand, cover with a sheet of glass and place in the shade. For moisture, immerse the pans in water. As the seedlings come up lift them carefully when quite small and prick them off into a flat allowing two inches square for each plant. It is important that the leaves of one plant should never be allowed to overlap those of another or decay will probably result. When established in pots shift them into the larger size. At the last shift give them some manure water, not too strong, about once a week.

**Hybrida Grandiflora Triumph Strain.** A truly outstanding strain. Bright shades of yellow, orange, red and rose; the flowers are large and mostly tigered or spotted. This strain produces bushy, shapely plants with clean foliage...  $\frac{1}{64}$  oz., \$2.75 1.25

CALCEOLARIA HYBRIDS—Continued

- Hybrida Grandiflora Mixed. Extra Choice.** Our mixture is composed of the choicest selections of the tigered, marbled, spotted and variegated varieties...  $\frac{1}{64}$  oz., \$2.40;  $\frac{1}{32}$  oz., \$4.40 1.00
- Hybrida Grandiflora Cloth of Gold.** Medium large freely produced, golden yellow flowers, very showy. 1.00
- Hybrida Multiflora Nana. Mixed.** The average size of the blooms is only  $1\frac{1}{2}$  inches, but the amount of flowers produced is unsurpassed. The color scheme is extraordinarily gay and full of contrast. Pinch out center to make well shaped bushy stock...  $\frac{1}{128}$  oz., \$2.25;  $\frac{1}{64}$  oz., \$4.00 1.00
- Indian Prince.** Rich dark scarlet with orange suffusion. Excellent compact habit,  $1\frac{1}{2}$  in. type...  $\frac{1}{128}$  oz., \$2.35 1.00
- Gilbert's Strain.** A selection of the Multiflora Nana type made by a grower in our midwest. Bright colors. 1.00
- Gilbert's Red.** Multiflora Nana type... 1.00
- Gilbert's Yellow.** Multiflora Nana type... 1.00
- Grandiflora, "Flower Cloud."** The most free blooming Calceolaria, in all colors. Of a very vigorous growth and resistant against weather influences. Small flowers in shades of yellow, orange and bronze...  $\frac{1}{128}$  oz., \$3.50 1.50
- Dwarf Tigered or Spotted.** Various spotted shades of red and rosy bronze...  $\frac{1}{64}$  oz., \$2.50;  $\frac{1}{32}$  oz., \$4.50 1.00

## Candytuft

**Giant Hyacinth-Flowered Pure White Select.** Trade pkt. Oz. This is a superior strain; it grows about  $1\frac{1}{2}$  feet high, with enormous trusses of blooms. The best strain in existence for florists' use... 4 oz., \$2.60; lb., \$8.00 \$0.20 \$0.80

**Candytuft Umbellata 12 in.**

- Alba. White. Purpurea. Crimson.  
Carmine. Rose Cardinal. Rose-pink.  
Flesh. Pink. Vaughan's Special Mixed.  
Lilacina. Lilac.

Each of above... Trade pkt., 15c; oz., 50c;  $\frac{1}{4}$  lb., \$1.60

Successive planting of the above give flowers all summer. May be sown late in Fall in Tulip beds.

For Candytuft Gibraltalica Sempervirens, see Perennial Pages.

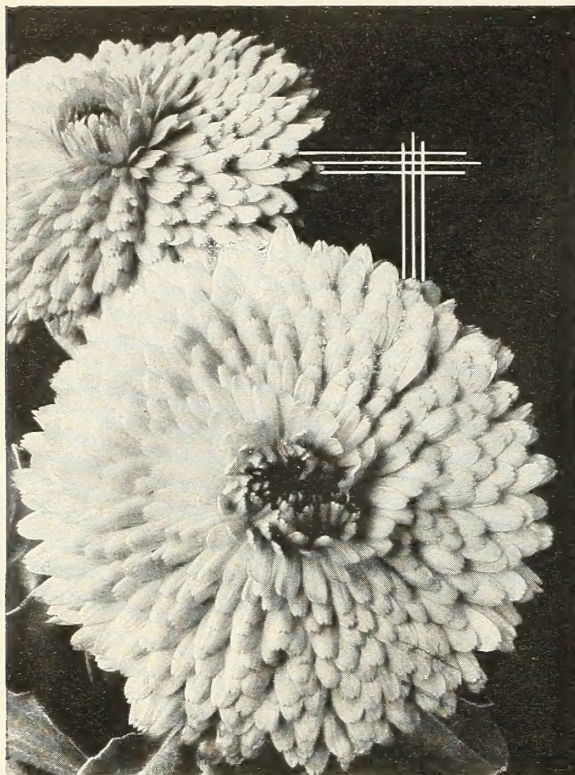
## Centaurea Cyanus

SUPER GIANT Cornflower

The flowers of these strains are large, fully double and colors intensified. Long stems for cutting.

- Black Boy.** Blackish maroon.  
**Blue Boy.** Rich deep blue, very large flowers.  
**Pinkie.** Deep pink. **Red Boy.** Ruby red. **Snowman.** Best white.  
**Vaughan's Mixture of Super Giant New Varieties Mixed.**  
Each of above, Trade pkt., 15c; oz., 45c; 4 oz., \$1.45; lb., \$4.50.





CALENDULA VAUGHAN'S IMPROVED SENSATION

## Calendula

### FORCING VARIETIES

The improved varieties, while mainly grown in the green house, can also be grown outdoors for cutting.

<b>Sensation, Vaughan's Improved (Campfire).</b> Long stems; very double, brilliant orange flowers. The blooms are very flat in shape. . . . .	Trade pkt.	Oz.
1/4 oz., 60c; 2 oz., \$3.50	\$0.40	\$2.00
<b>Ball Apricot.</b> Light straw or buff color with dark center. . . . .	1/4 oz., 60c; 2 oz., \$3.50	.40 2.00
<b>Ball Gold.</b> Has the same long stem and extra large, uniformly double flowers that are so well known in our Ball Orange Improved. . . . .	1/4 oz., 60c; 2 oz., \$3.50	.40 2.00
<b>Ball Lemon Queen.</b> . . . . .	1/4 oz., 60c; 2 oz., \$3.50	.40 2.00
<b>Ball Improved Long Orange.</b> Attractive bright golden orange with light eye; a clearer lighter color than the regular Long Orange. . . . .	1/4 oz., 60c; 2 oz., \$3.50	.40 2.00
<b>Ball Orange Improved.</b> Rich orange, light center. Petals slightly notched. . . . .	1/4 oz., 60c; 2 oz., \$3.50	.40 2.00
<b>Ball Masterpiece.</b> Extra long-stemmed, deep orange-brown center. . . . .	1/4 oz., 60c; 2 oz., \$3.50	.40 2.00
<b>Ball White (Moonlight).</b> A beautiful soft cream yellow. . . . .	1/4 oz., 60c	.40 2.00
<b>Vaughan's Special Mixture</b> for greenhouse forcing . . . . .	1/4 oz., 50c	.35 1.50

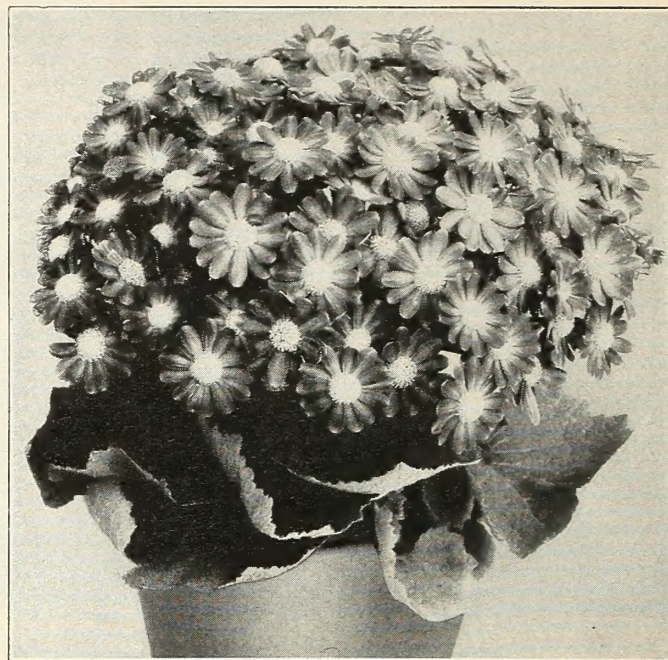
## Chinese Forget-Me-Not

<b>Cynoglossum Amabile, Blue Bird.</b> A lovely plant 18 to 24 inches tall, with bright blue flowers. Makes wonderful cut flower material. . . . .	Tr. pkt.	Oz.
1/4 oz., 30c	\$0.15	\$1.00
<b>Amabile Firmament.</b> A compact variety of bushy growth, 15 to 18 inches tall. Smothered with rich dark blue flowers. . . . .	1/4 oz., 35c	.20 1.20

## Clarkia Elegans Fl. Pl.—2 ft.

This is now much planted for cutting, both in and outdoors. If grown indoors, plants must be starved. Grow on in flats or shallow raised bench.

<b>Albatross.</b> Pure white.	<b>Salmonia Perfecta.</b> True salmon, extra double.
<b>May Blossom,</b> Pure glowing rose.	<b>Scarlet Queen.</b>
<b>Purple Prince.</b> Rich purple.	<b>Vaughan's Special Mixture.</b>
Each of above. Trade pkt., 15c; 1/4 oz., 30c; oz., \$1.00.	



CINERARIA Multiflora Nana Gold Center

## CINERARIA "GOLD CENTER" OF THE MULTIFLORA NANA TYPE

We were the introducer of this magnificent strain several years ago. It is distinguished by the golden yellow stamens—in the type they are dark. The flowers are produced in great profusion, are of the same size and color range as the Multiflora Nana. The golden yellow stamens make a wonderful contrast with the blues, reds and pinks of the flowers.

1/32 oz., \$3.50; 1/64 oz., \$2.00; 500 seeds, 60c; 1000 seeds, \$1.00.

## Cineraria Hybrida

<b>Vaughan's Columbian Mixture.</b> Contains the best large flowering types and colors as well as Cremer's, Potsdam, Siter's and Gold Center strains and cannot be excelled in variety of colors, size, shape and substance of flowers and perfect habit of plant. . . . .	Trade pkt.	Oz.
1/64 oz., \$1.75; 1/32 oz., \$3.00; 1/16 oz., \$5.50. 1000 seeds	\$1.00	.....
<b>Cremer's Prize Mixture. Re-selected.</b> Somewhat taller and larger flowered than Multiflora Nana . . . . .	1/64 oz., \$2.20; 1/32 oz., \$4.00; 1/16 oz., \$7.50	1.50 .....
<b>Cremer's Improved Prize Strain. Originator's Packet.</b> . . . . .		1.50 .....
<b>Howard and Smith's Strain. Mixed.</b> A conservatory strain, large flowering. . . . .		1.00 .....
<b>Multiflora Nana. Mixed, all colors.</b> . . . . .	1/64 oz., \$1.60; 1/32 oz., \$3.00	1.00 .....
<b>Potsdam Strain. Mixed</b> (Berlin Market or Weissensee). American grown seed. The plants are taller and flowers larger than Cremer's. . . . .	1/64 oz., \$1.75; 1/32 oz., \$3.00	1.00 .....
<b>Cremer's Prize Strain and Siter's Rainbow Strain</b> in equal proportions. . . . .	1/64 oz., \$2.00; 1/32 oz., \$3.75	1.00 .....
<b>Siter's Rainbow Strain. Mixed.</b> Immense flower heads of medium large flowers ranging from bright eyed types to finer pastel shades. Compact growth with small leaves. Earlier than Cremer's. . . . .	1/16 oz., \$8.00; 1/32 oz., \$4.50; 1/64 oz., \$2.50	2.00 .....
<b>Siter's Rainbow Originator's Packet.</b> . . . . .		2.00 .....
<b>Star Cineraria (Cineraria Hybrida Polyantha). Felt-ham Beauty.</b> Fine small flowering variety for cutting and decorative purposes, nearly all have white centers. 2 ft. . . . .		.75 .....





Type of Our Cyclamen Persicum Giganteum

## Cyclamen—Persicum Giganteum

Our Cyclamen seed has been grown by experienced American and European growers who have specialized in this item for years.

The prices on all Cyclamen seed are net. No cash discount. 250 seeds of one variety at 1000 rate, less than 250 seeds of one variety at the 100 rate. We will allow for cash with order. 5% on 10,000 to 25,000 seeds; and on orders over 25,000 seeds 10%, any assortment of single varieties. Vogt's Double Cyclamen no quantity discount.

	100 Seeds	1000 Seeds
Baardse's Wonder. Salmon with white border.....	\$2.25	\$20.00
Bonfire. Brilliant salmon.....	2.25	20.00
Bright Red.....	1.75	16.00
Dark Blood Red.....	1.75	16.00
Lavender.....	1.75	16.00
New Ruffled. Mixed.....	2.30	21.00
Mozart Deep Pink.....	1.75	16.00
Orange Beauty. Orange vermillion.....	2.30	21.00
Pink Pearl. Salmon pink.....	2.30	22.00
Pure Rose.....	1.75	16.00
Pure White.....	1.75	16.00
Saffron Red Silver Edge.....	2.50	22.00
Salmonium Oculatum.....	2.20	18.00
Salmon Scarlet (America Improved).....	2.30	20.00
Salmon-Rose Improved.....	2.25	20.00
Salmon Dark (Glory of Wandsbek or Pearl of Zehlendorf).....	2.20	18.00
Salmon Light (Rose of Zehlendorf).....	2.20	18.00
Soft Rose with Carmine Eye (Improved Rosa von Marienthal).....	1.75	16.00
White Fringed.....	2.20	18.00
White with Carmine Eye.....	1.75	16.00
Vaughan's Florist Mixture.....	1.75	15.00

## Vogt's Double Cyclamen

Prices on Double Cyclamen seed are net.

This strain comes about 80% true from seed.

**Admiration.** A beautiful salmon-rose with shaded eye.

**Cerise Brilliant.** A good Christmas red.

**Coral Pink** with mulberry eye.

**Fluffy White** with pink eye.

**Orchid Pink.**

**Prosperity.** An azalea type, flaming rose color.

**Rosea.** A soft rose with a coral cast, shading lighter at petal tips.

**Double Mixed.**

Each of the above, 100 seeds, \$3.50; 250 seeds, \$7.00; 500 seeds, \$13.00.

Cyclamen flowers keep well when cut, if you make an incision lengthwise into the lower part of the stem with a sharp knife and put flower stems immediately into water.

Easter 1949 is April 17.

The date of Easter falls invariably on the first Sunday after the first full moon occurring on or after March 21.

## Didiscus Coeruleus

Vaughan's Improved Wilt-Resistant Blue Lace Flower

An improved variety with flowers of a deeper blue and half again as large as the original type. Strong heavy stems, many measuring 18 inches from first joint, with well shaped flowers measuring 2½ to 3½ inches in diameter. Plant in pots to follow "mums" or sow direct in beds, thinning to about 6 in. in rows a foot apart, does not transplant well. Not over Carnation temperature needed.

Trade pkt., 50c; ¼ oz., \$1.00; ¼ oz., \$1.75; oz., \$6.00.

**DRACAENA Indivisa.** Ornamental plants with long Trade pkt. Oz. narrow gracefully arching green leaves..... ¼ lb., \$1.50; lb., \$5.00 \$0.15 \$0.50



EXACUM, Affine

## EXACUM Affine

Beautiful greenhouse pot plant, producing sweet scented bright mauve flowers. Flowering within 6 months from sowing. Height 9 inches. Trade pkt., \$1.00; 1/128 oz., \$3.00; ¼ oz., \$5.50.

## Freesias

Sow seed in cold frame in early summer, covering with sash for about three weeks or until plants are up, gradually removing sash so plants become accustomed to air. The bulbs can be belifted by the middle of September. They will bloom during the late winter with nice large blooms and long

stems. 1 oz., contains about 1,000 seeds.

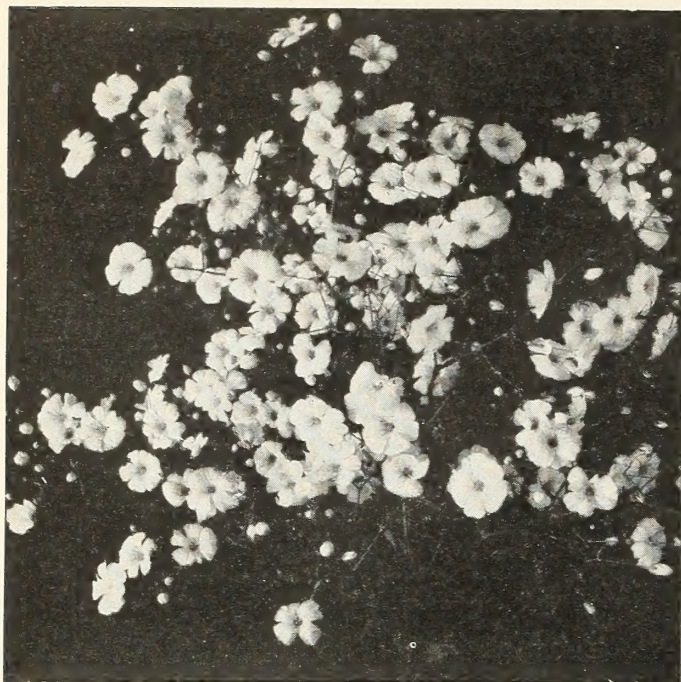
**Freesia Refracta Alba Pura.** Pure white. Trade pkt., 50c; ¼ oz., \$1.25; oz., \$4.00.

**Rainbow hybrids.** Color varieties. Trade pkt., 35c; ¼ oz., 80c; oz., \$3.00.

**Golden Daffodil.** Clear light yellow with orange blotch. Trade pkt., 50c.

**Vaughan's De Luxe Mixture.** This strain is from one of the finest Freesia breeders and represents an outstanding blend. The blooms are extra large and have excellent stem length. The color range is most complete, including all possible shades and color variations. Can be flowered in six months from sowing. Trade pkt., \$1.00.





GYPSOPHILA Elegans Grand. Alba. London Market

## Gypsophila

Elegans Grandiflora Alba, London Market. Special Trade pkt. Oz.	
Florist strain.....	¼ lb., 75c; lb., \$2.25 .... \$0.25
Carminae. Deep rose.....	¼ oz., 45c \$0.15 1.40
Crimson.....	¼ oz., 45c .15 1.40

## Impatiens

The Impatiens will make splendid pot plants for Christmas and are useful for bedding and porch boxes, northern exposure in summer. Trade pkt. Oz.

Sultani Bright rose. 1½ ft., 1,000 seeds, 90c; 500 seeds.....	\$0.50 ....
Sultana New Hybrids. 500 seeds, 50c; 1,000 seed, 90c.	
Holstii. Bright vermillion. Beautiful for summer bedding. 1½ ft. 1000 seeds, 90c; 500 seeds.....	.50 ....
Holstii New Hybrids. Extra choice. Charming mixture of many colors. 1,000 seeds, 90c; 500 seeds....	.50 ....

**JACARANDA Mimosaeifolia.** Mimosa leaved. Foliage as finely cut as a fern. Plants symmetrical and elegant in shape. Useful for combinations or as a pot plant. 100 seeds, 50c; 1,000 seeds..... 3.50 ....

**LISIANTHUS Russellianus** (Eustoma). An excellent pot plant with rich violet blue flowers with black center and yellow stamens. Sow in heat in Spring, keep fairly moist during Summer. Blooms in four months from seed. Upright and compact free flowering habit. 1½ ft. ⅛ oz., \$1.40; Trade pkt., 50c.

## FOUR NOVELTY KALANCHOES

Excellent for pot culture and cutting

**Alfred Graesser.** A strong hybrid with very free-flowering habit. Rich scarlet-red. Trade pkt., \$1.75.

**Bonfire.** Individual flowers three times as large as the type. Glowing orange-scarlet. Trade pkt., \$1.25.

**Brilliant Star.** Makes a fine pot plant producing flowers 3 times the size of the common varieties and of a brighter fiery red color. The attractive foliage is restricted to the base of the plant, permitting the development of clean stems about 5 inches long which are suitable for cutting, especially if benched. Trade pkt., (800 seeds) \$1.50.

**Ernst Thiede.** A sport from Kalanchoe Blossfeldiana Selecta. Very dwarf, compact growth. Free-flowering, glowing red. Trade pkt., \$1.25.

## KALANCHOES—Continued

**"Flame".** In brilliancy of color this Kalanchoe is unsurpassed. The flower heads are borne on wiry stems with up to 200 individual flowers. The color is a vivid fiery red, 500 seeds, \$1.00.

**Tom Thumb.** A dwarf variation of the popular K. Blossfeldiana, with the same color. The general habit is more dwarf and the very short-flowering stems form just beyond the foliage and the flowers actually envelope the entire plant. ¼ oz., \$5.00; 1,000 seeds, \$1.25.



KALANCHOE Brilliant Star

**Globulifera.** Var. Coccinea (Blossfeldiana). 12 inches. Bright scarlet flowers. Very choice pot plant. 3,000 seeds, \$1.10; 1,500 seeds, \$0.60.

## Annual Larkspur

To get satisfactory germination from Larkspurs in the hot weather, it is necessary to chill the seeds in an ice box for several days before sowing.

### GIANT DOUBLE IMPERIAL—4 ft.

#### Base Branching Type

This type is the most desirable for outdoor growing. An annual Larkspur of upright growth, branching from the base of plant, producing more and longer flower stems for cutting:

<b>Blue Bell.</b> Fine medium blue.	<b>Lilac Spire.</b> Beautiful lilac color.
<b>Blue Spire.</b> Dark blue.	<b>Los Angeles Improved.</b> Salmon scarlet.
<b>Carmine King.</b> Carmine rose	<b>Miss California.</b> Deep pink on salmon.
<b>Brilliant Rose.</b>	<b>Montrose.</b> Clear rose pink.
<b>Dazzler.</b> Rich scarlet.	<b>Pink Perfection.</b> Lively light pink, large double florets, upright habit.
<b>Deep Carmine King Improved.</b> New, very distinct improvement over Carmine King; holds its color under trying conditions.	<b>Rosalind.</b> Salmon-rose, non-shattering.
<b>Exquisite Pink Improved.</b> Soft pink shaded salmon.	<b>Sweet Lavender.</b> Light lavender blue.
<b>Gloria Improved.</b> Rich deep rose-salmon.	<b>White King.</b> Glistening pure white.

Each of the above, Trade pkt., 25c; ¼ oz., 40c; ½ oz., 65c; oz., \$1.10; ¼ lb., \$3.60; lb., \$11.00.

**Giant Imperial Vaughan's Special Mixed.** All colors. Trade pkt., 25c; ¼ oz., 40c; ½ oz., 65c; oz., \$1.10; ¼ lb., \$3.60; lb., \$11.00.

### SUPER MAJESTIC—5 Ft.

Long tapering laterals branch from base of each plant and grow close to main stem, vigorous growth and abundance of flowers.

**Deep Salmon Pink. Lavender. Rose Pink. White. Super Majestic Mixed.**

Each of above, Trade pkt., 35c; ¼ oz., 50c; 1 oz., \$1.50; ¼ lb., \$5.00; lb. \$15.00.

### STOCK-FLOWERED—4 ft.

**Ageratum Blue. Sky Blue. Rose Queen. Deep rose-pink without salmon shading. White.**

**Lilac Supreme. Deep lilac. Rosamond. Pure rose.**

Each of the above. Trade pkt., 25c; ½ oz., 55c; oz., 90c; ¼ lb., \$3.20; lb., \$9.60.

**Vaughan's Special Stock Flowered Mixed.** Trade pkt., 25c; ½ oz., 55c; oz., 90c; ¼ lb. \$3.20; lb., \$9.60.



ANNUAL LARKSPUR—Continued

**IMPROVED GIANT HYACINTH-FLOWERED—45 in.**

Blooms much earlier than other tall Larkspurs. Non-branching, each plant produces one big Hyacinth-like spike, broad at the base and tapering toward the top, thickly studded with perfect double blooms to a length of 18 to 20 inches.

Dark Blue.  
Pink.  
White.

Lilac.  
Purple.

Each of the above, Trade pkt., 30c; ¼ oz., 50c; oz., \$1.80.

**Giant Hyacinth Fld. Improved. Mixed.** Trade pkt., 30c; ¼ oz., 50c; oz., \$1.60; lb., \$16.00.

## Lupinus

Free-flowering, easily grown annuals, with long, graceful spikes of rich and various colored pea-shaped flowers; valuable for cutting to follow "mums" or sweet peas as a "catch crop." Sow 3 or 4 seeds in a 3 or 4 in. pot. Keep in cold frame until late October or November. Transplant into a ground bed and grow slowly in cool temperature. Space 10x12 inches, water well after transplanting and then keep on dry side until plants are established.

**Hartwegii Giants or King Lupinus.** This improved giant strain is over a foot taller than the ordinary strain, reaching a height of 3 or 4 feet. There are five or six long basal branched spikes to each plant, bearing closely placed giant blooms.

<b>King Dark Blue</b>	<b>King Sky Blue</b>	<b>King White</b>
<b>King Heliotrope</b>	<b>King Mixed</b>	Trade pkt. Oz.

Each of the above.....lb., \$8.00 \$0.20 \$0.85



ANNUAL LARKSPUR GIANT IMPERIAL

## VAUGHAN'S VEGETABLE SEEDS

FOR 72 years Vaughan's Seed Store has specialized in quality vegetable seeds for commercial as well as amateur growers. We maintain one of the largest seed testing laboratories in the world and neither buy nor sell any seeds that fail to come up to the highest

standards of purity and germination. In addition to this, we place emphasis upon the care, breeding and selection of our seeds in order to insure that they bear crops that are uniform and true to type.



SWEETHEART CARROT



RADISH CAVALIER FORCING



RADISH SCARLET GLOBE  
EARLY SHORT TOP

**BEANS—Bountiful Green.** Quick maturing prolific. Lb., 35c, 10 lbs., \$3.00.

**BEET—Green Top Bunching.** Best all purpose beet. Lb., \$1.60, 5 lbs., \$7.50.

**CARROT—Sweetheart.** Excellent table variety. ¼ lb., 75c, lb., \$2.25.

**CHINESE CABBAGE—oz., 25c, ¼ lb., 65c, lb., \$1.75.**

**CUCUMBER—Marketer.** Best for market. ¼ lb., 85c; lb., \$2.50.

**ENDIVE—Florida Deep Heart.** ¼ lb., 50c, lb., \$1.50.

**LEAF LETTUCE—Grand Rapid Select.** ¼ lb., 65c, lb., \$2.00.

**RADISH—Cavalier Red.** Short topped olive shape. Lb., \$1.10, 10 lbs., \$10.00.

**Scarlet Globe Short Top.** Ball shaped bright red. Lb., \$1.10; 10 lbs., \$10.00.

**Scarlet Globe Med. Top.** Olive shaped. Lb., \$1.00, 10 lbs., \$9.00.

**SPINACH—King of Denmark.** Lb., 50c, 10 lbs., \$4.50.

**TURNIP—Purple Top White Globe.** ¼ lb., 30c, lb., 85c.

**RUTABAGA—American Purple Top.** ¼ lb., 30c, lb., 75c.





PANSY VAUGHAN'S IMPROVED SWISS GIANT MIXTURE

## PANSIES

Pansies have long been a favorite with us. We introduced the Swiss Giants to American gardens and named and introduced the lovely Canadian variety, Maple Leaf, several years ago.

### VAUGHAN'S IMPROVED SWISS GIANT MIXTURE

The flowers of this strain are of enormous size, 3 inches and over in diameter. They are perfectly round with overlapping petals, borne on strong stalks well above the remarkably luxuriant foliage. Thick petals, of a rich velvety texture, give this strain of pansy the required substance so necessary to a perfect pansy.

The superb colors and color combinations—are their distinctive feature. Excellent for greenhouse culture. Trade pkt., 60c;  $\frac{1}{8}$  oz., \$1.30;  $\frac{1}{4}$  oz., \$2.25; oz., \$8.00; 4 oz., \$30.00.

### VAUGHAN'S SUPER SWISS GIANT MIXTURE

One of our leaders and represents the choicest strain of this popular and profitable flower. Combining the finest selections of several Pansy specialists, the perfect blending is further insured by the addition of separate colors that do not generally appear in the average mixture. Trade pkt., 75c;  $\frac{1}{8}$  oz., \$1.50;  $\frac{1}{4}$  oz., \$2.75; oz., \$10.00;  $\frac{1}{4}$  lb., \$32.00.

### VAUGHAN'S DWARF SUPER SWISS MIXED

This type, being shorter and more compact, is more suitable to plant sales. The color range is as good as that of the Improved Swiss. Trade pkt., 60c;  $\frac{1}{8}$  oz., \$1.40;  $\frac{1}{4}$  oz., \$2.40; oz., \$8.00.

### GIANT SWISS SEPARATE SORTS

**Swiss Alpenglow.** Rich wine-red shades.

**Swiss Berna.** Dark violet-blue.

**Swiss Blue (Ullswater. Thuner Sea).** The most distinct rich deep ultramarine blue with darker blotches.

**Swiss Coronation Gold.** Flowers golden-yellow. Perfectly round flowers, slightly ruffled edges. This is the best pure yellow pansy.

**Swiss Pure White.** The best pure white pansy.

**Swiss Rhinegold.** Canary-yellow with dark blotches.

Each of the above: Trade pkt., 75c;  $\frac{1}{8}$  oz., \$1.80;  $\frac{1}{4}$  oz., \$3.00; oz., \$10.00.

**Swiss Giant Orange.** A perfectly round flower with overlapping petals of good substance. Color is a vivid orange, the upper petals carrying a halo of golden yellow. The lower petal is a deep orange. Trade pkt., \$1.00.

**Swiss Raspberry Rose.** An entirely new color in the Swiss giant strain. A lovely tint of pink best described as Raspberry Rose. It has a suggestion of a lighter tone on the edges of the petal and is marked with a velvety blotch in a deeper tone. Trade pkt., \$1.00;  $\frac{1}{8}$  oz., \$2.00;  $\frac{1}{4}$  oz., \$3.50; oz., \$12.00.

### VAUGHAN'S MAPLE LEAF GIANT MIXED

A distinct variety we introduced several years ago, having very large leaves and flowers of gigantic size, 4 to 5 inches across, perfectly round, of heavy substance in many attractive colors and color combinations. Trade pkt., 60c;  $\frac{1}{8}$  oz., \$1.60;  $\frac{1}{4}$  oz., \$2.75; oz., \$9.00.

### VAUGHAN'S SUPER MAPLE LEAF MIXTURE "CANADIAN GIANTS"

This strain is even finer than the preceding, with flowers of unbelievable size and texture, larger than in any other strain, the plants are also of compact growth and the extra large foliage is a rich, dark green. See illustration in color on back outside cover. Trade pkt., 90c;  $\frac{1}{8}$  oz., \$1.75;  $\frac{1}{4}$  oz., \$3.00; oz., \$10.00.

### VAUGHAN'S LONG STEMMED WINTER-FLOWERING MIXED RESELECTED

It has a much wider color range than other Winter-Flowering strains and has an excellent stem length, averaging better than 10 in. The bloom size is from  $2\frac{1}{2}$  to 3 in. and the flowers are of very good substance and sweet scented. Sow in summer for Mid-winter blooming and give support early.  $\frac{1}{2}$  Trade pkt., 60c. Trade pkt., \$1.00;  $\frac{1}{8}$  oz., \$2.50;  $\frac{1}{4}$  oz., \$4.80.

### VAUGHAN'S GIANT MIXTURE

Large flowers of good substance in a complete color range in light and dark shades. Probably the best general complete high grade mixture obtainable. Trade pkt., 50c;  $\frac{1}{4}$  oz., \$2.50; oz., \$8.00;  $\frac{1}{4}$  lb., \$30.00.

**Delft Blue.** Porcelain-blue. Trade pkt., 75c;  $\frac{1}{8}$  oz., \$1.80;  $\frac{1}{4}$  oz., \$3.00; oz., \$10.00.

**Geneva Giant Mixed.** Grown from Originator's Stock Seed. A very fine strain. Trade pkt., 75c;  $\frac{1}{8}$  oz., \$1.50;  $\frac{1}{4}$  oz., \$2.75; oz., \$10.00.

**America, Ideal Bedding or Basket Pansy.** Good substance with wide color range. Free-flowering. Trade pkt., 60c;  $\frac{1}{8}$  oz., \$1.40;  $\frac{1}{4}$  oz., \$2.40; oz., \$9.00.

**Engelmann's Giant Mixture.** Dark and light shades, huge flowers, compact and early flowering. Trade pkt., 75c;  $\frac{1}{8}$  oz., \$1.75;  $\frac{1}{4}$  oz., \$3.00; oz., \$10.00.

**Jumbo Mixed.** Extra large and early; long stemmed flowers. Trade pkt., 75c  $\frac{1}{16}$  oz., \$1.40;  $\frac{1}{8}$  oz., \$2.25;  $\frac{1}{4}$  oz., \$4.00; oz., \$14.00.

**Masterpiece—Giant Curled.** The colors are superb, mostly red and brown shades. Trade pkt., 50c;  $\frac{1}{4}$  oz., \$1.80; oz., \$6.00.

**Oregon Giants (Originator's Stock).** A fine strain of giant ruffled pansies. The large flowers of heavy texture have a delicate fragrance and come in all shades and coloring. Long stems and luxuriant foliage. Pkt. 200 seeds, 50c; pkt. 500 seeds, \$1.00; 3 \$1.00 packets for \$2.00;  $\frac{1}{2}$  oz., \$6.00; oz., \$12.00.

**Butterfly Hybrids.** The flowers, after years of selection, are a ruffled and frilled type. The colors are exquisitely beautiful pastel shades including flesh-pinks overlaid with bronze, clear, strong orchids, pinks as bright as daisies, deep rose, and yellows so deep they look almost orange. The markings, too, are different. Upper petals show a vivid sunburst while lower petals are blotched with metallic sheens of color like the wings of butterflies. Trade pkt., \$1.00;  $\frac{1}{16}$  oz., \$3.00;  $\frac{1}{8}$  oz., \$5.00.

### GIANT SEPARATE SORTS

**Adonis.** Light blue, white center.

**Beaconsfield.** Deep purple, upper petals white.

**Black.** Large flowered, true black.

**Bright Blue.**

**Purple.** Very large, rich deep purple.

**Pure Yellow.**

**St. Knud.** Golden orange.

**White with Purple Eye.** Very large.

Each of the above . . . . . Trade pkt., 35c;  $\frac{1}{8}$  oz., 80c;  $\frac{1}{4}$  oz., \$1.50.

### Early Flowering or Ice Pansies.

Flowers three weeks earlier than others, affording an excellent companion for early spring flowering bulbs.

**Blue Boy.** Lavender.

**Helios.** Pure yellow.

**Winter Sun.** Golden yellow with black eye.

Each of the above. Trade pkt., 35c;  $\frac{1}{4}$  oz., \$1.20; oz., \$4.40.



## Marigold

For best results, seed should be sown from July up to December. Plant in any house that can be kept free from frost. No insect pests.

### Tall African Double Fistulosa, 3 Ft.

An especially fine tall branching strain, bearing enormous flowers of the quilled type.

**All Double Lemon.** Trade pkt., 25c; ¼ oz., 50c; oz., \$1.60.

**All Double Orange.** Trade pkt., 25c; ¼ oz., 50c; oz., \$1.60.

**Lemon Queen, Los Angeles Florist Strain. All double.** Trade pkt., 25c; ¼ oz., 50c; oz., \$1.60; 4 oz., \$5.00.

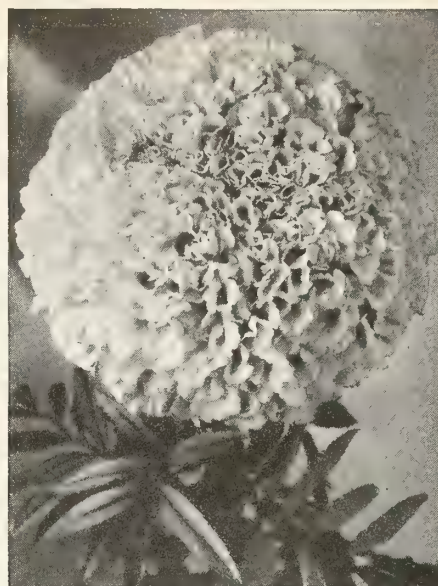
**Prince of Orange, Los Angeles Florist Strain. All double.** Trade pkt., 25c; ¼ oz., 50c; oz., \$1.60; 4 oz., \$5.00.

**Yellow Supreme.** Rich creamy, broad loose-leaved petals of honey fragrance. Trade pkt., 25c; ¼ oz., 50c; oz., \$1.60.

**Guinea Gold.** Semi-double type with long loose petals. Brilliant shade of orange flushed with gold. 2½ ft. Trade pkt., 25c; ¼ oz., 50c; oz., \$1.60.

**Lieb's Winter Flowering.** Mahogany brown with gold in yellow crested center. For a fine winter cutflower, especially in a retail growers establishment. Seeds can be sown from August to December. Space plants ten inches apart in bench in not too rich soil in Carnation house temperature. Trade pkt., 25c; ¼ oz., 60c; oz., \$2.00.

**Winter Harmony.** It is of quilled scabious type. A single row of reddish brown guard petals encircling a golden orange quilled center, with mahogany brown dots on tip of each quilled petal. Flowers 2½ inches in diameter. Trade pkt., 25c; ¼ oz., 50c; oz., \$1.65.



MARIGOLD Prince of Orange

## PETUNIAS

### All Double Dwarf (Victorious) Fringed

Again available will be the popular World Beauty (Improved) Blue Brocade, Snowball, with other popular varieties, plus many new colors and color combinations. That these will be welcomed back by florists is beyond question, as there is no finer pot plant for Easter, Mother's Day and spring planting. Advance orders will be filled upon arrival of seed this Fall.



PETUNIA ALL—DOUBLE TYPE

### NEW INTRODUCTIONS

**Illumination.** The brightest of all Victorious Petunias. A bright red overlaid with a scarlet sheen. Our very best as to color, plant habit and size of flower; a must for pot plant growers.

**Mayflower.** Bright carmine-red veining on white with large and well fringed flowers.

**Silver Blue.** Now available to the trade a clear blue without marked veination formerly found in this color. The flowers are large and well fringed.

**Bright Orange.** A fine novelty with its unusual color of bright orange and lighter shades. Flowers well doubled and fringed.

Each of the above, ½ Trade pkt., (400 seeds), \$2.25; Trade pkt., (800 seeds), \$4.00.

### IMPROVED VARIETIES

**Blue Brocade.** Profuse bloomer of true violet blue. The fringed flowers of 3½ to 4 inches across are borne on stocky plants 10 inches in height.

**Amaranth Red, Improved.** An extra dwarf bushy plant with a rich purple-red coloring. Flowers fully double and fringed.

**Fantasy.** A variegated form of Blue Brocade. Conspicuously striped with rich, velvety violet blue and white.

**Orchid Beauty.** A clear light blue of good substance. Free flowering, well fringed, and dwarf habit. An outstanding variety in this color.

**Purple and White.** White variegation on bright purple ground.

Each of the above, ½ Trade pkt., (400 seeds), \$2.25; Trade pkt., (800 seeds), \$4.00.

### POPULAR STANDARD VARIETIES

**Rosy Carmine Improved.** (World Beauty or Pink Perfection). Uniformity of growth and a brighter rose color shall increase the popularity of this variety more than ever. What could be better than a plant of 8 to 10 blooms with this appealing color, fringing and doubleness to attract pot plant sales.

**Pure White (Snowball).** Same dwarf uniform habit of Rosy-Carmine with large well fringed flowers of the purest white. A fine Mother's Day pot plant.

**Attraction.** The brightest Carmine-rose and white combination of the Victorious Series. Dwarf and bushy in habit with flowers well doubled and fringed.

**Loveliness.** La France or salmon pink; an especially valuable color to the florist, has the uniformity of growth and habit of World Beauty.

**Gaiety.** A bicolor in rose or light rose-red with white ground. Except for lighter tones, similar to "Attraction".

**All Double Dwarf Giant Fringed Mixed (Victorious).** The flowers are very large, exquisitely ruffled and fringed. Our mixture contains a very large percent of separate colors, thereby giving you a better balanced color range than has been ever offered.

Each of the above, ½ Trade pkt., (400 seeds), \$2.00; Trade pkt., (800 seeds), \$3.50; ¼ oz., \$11.00; ½ oz., \$21.00.



# Choice Primulas for Florists



PRIMULA Malacoides Riverside Red Rose

## Primula Malacoides (Baby Primrose)

Recent improvements in this Baby Primrose class have made it indispensable for Florist's use. Seed sown in June will flower for Christmas and September sown seed will produce nice plants for Easter and Mother's Day. Sow in sterile soil.

**Brilliancy.** The flower opens lavender but changes to a brilliant red in one or two days in a sunny greenhouse.

**Glory of Riverside Improved.** True rose-pink, a strong grower and without a doubt, the most valuable variety for all purposes.

**Lilac Beauty.** The color is a pure soft lilac, absolutely fixed. This is another fine color for making up artistic combinations.

**Mrs. Eriksson of Riverside.** A glowing rose-red, a very strong grower with heavy flower stems and stiff foliage; large flowers in heavy clusters of medium height.

**New Giant.** Large flowered late blooming salmon rose.

**Riverside Red Rose.** Deep rose pink.

**White Giant.** An exceptionally strong grower and well adapted to combinations.

**Formula Special Mixed.** A real choice selection of the above varieties.

Each of above, trade pkt., \$1.00;  $\frac{1}{64}$  oz., \$2.75;  $\frac{1}{32}$  oz., \$5.00.

## New Giant Malacoides

**Double Fairy Jewels.** The color is a lovely, rich rose pink, slightly deeper in the center than the outer or older petals. The strain comes 90% to 95% double from seed. Trade Packet (about 1,000 seeds), \$1.50.

**Enchantress.** A beautiful, soft salmon rose. The well rounded, beautifully formed flowers are  $\frac{7}{8}$  to 1 inch in diameter and produced in unbelievable profusion. A well grown plant will have 50 or more heavy stemmed spikes. Trade packet (about 1,000 seeds), \$1.50.

**Snow Flake.** Has flowers of the purest shimmering snow white. Its beautifully formed 1-inch florets adorn the stately stems like glistening jewels sharply highlighted by the lush green foliage. Trade packet (about 1,000 seeds), \$1.00.

**Mixture.** A mixture of giant varieties. Trade packet (about 1,000 seeds), \$1.00.

## Malacoides Various Sorts

	Trade pkt.
Dawkins Carmine Pink.....	1000 seeds \$1.25
Princess Mary. Deep rose pink... $\frac{1}{64}$ oz.,	\$2.25; 1000 seeds \$1.25
Salmon Rose..... $\frac{1}{64}$ oz.,	\$2.00; 1000 seeds \$1.00

## Primula Obconica

### Gigantea Wyaston Wonder Hybrids

These have huge heads of flowers carried on strong stems well above the foliage. In spite of the vigorous growth they make a compact and tidy plant.

	Trade pkt.
Blood Red..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25 1.25
Crimson..... $\frac{1}{32}$ oz.,	\$5.50; $\frac{1}{64}$ oz., \$3.00 1.25
Giant Rose..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25 1.25
Orchid Lavender..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25 1.25
Salmon Pink..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25 1.25
Scarlet..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25 1.25

### Grandiflora Varieties

Grandiflora Avalanche. White. $\frac{1}{32}$ oz.,	\$4.25, $\frac{1}{64}$ oz., 2.25	1.25
Appleblossom. Pink..... $\frac{1}{64}$ oz.,	2.25	1.25
Better Days. Deep carmine-red. Very large-flowering. The compact, well branched growth is very symmetrical and the mass of flower heads shows evenly above the dark green foliage, on strong stems. .... $\frac{1}{64}$ oz.,	\$2.25	1.25
Dark Blood Red..... $\frac{1}{64}$ oz.,	\$2.25; $\frac{1}{32}$ oz., \$4.25	1.25
Sky Blue (Konigsee). Extra-large flowers..... $\frac{1}{64}$ oz.,	\$2.25; $\frac{1}{32}$ oz., \$4.25	1.25
Fasbender Red. Flowers rich deep red of enormous size. Outstanding variety..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25	1.25
Lachsrosa. A beautiful salmon-rose..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25	1.25
Mohnstein's Dark Red.... $\frac{1}{32}$ oz.,	\$4.25, $\frac{1}{64}$ oz., \$2.25	1.25
Mueller's (Berlin) Rose.... $\frac{1}{32}$ oz.,	\$4.25, $\frac{1}{64}$ oz., \$2.25	1.25
Perle van Niederrhein. Strong growing, large flowered and free blooming scarlet red.... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25	1.25
Rose Queen. Large, perfect blooms of great substance, bright carmine rose..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25	1.25
Obconica Grandiflora Mixed, many colors..... $\frac{1}{32}$ oz.,	\$4.25; $\frac{1}{64}$ oz., \$2.25	1.25

## Primula Chinese Giant

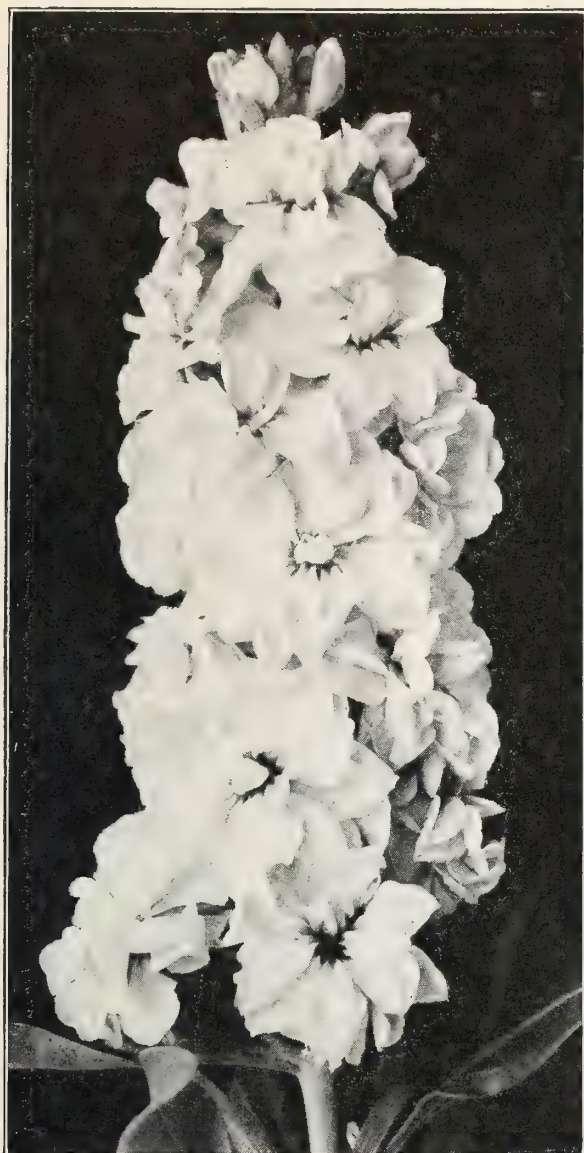
Chiswick Red. Improved. Red.....	200 seeds	.80
Covent Garden White.....	250 Seeds, \$1.60, 100 seeds	.75
Dazzler. A brilliant and unique shade of orange-red, exceptionally floriferous and long lasting.....	200 seeds	1.25
Giant Pink. Extremely large petals of great substance....	200 seeds	.80
Giant Salmon.....	100 seeds	.80
True Blue.....	100 seeds	.80
Vaughan's Special Mixture.....	150 seeds	.80
Chinese Giant Mixed. Includes this year a number of new shades.....	100 seeds	1.00

## Primula Chinensis Stellata or Star

This type is indispensable for general decorative work. The plants are very floriferous and bloom for a long period. It is a good keeper, the flowers remain fresh in water for many days.

**Giant Star Mixed.** 200 seeds, 80c.





STOCKS NON-BRANCHING COLUMN SILVERY LILAC

## Stocks

Our Stocks are produced by the most careful growers and are equal to the best in the market.

Varieties preceded by star (★) are the most popular colors.

A leaflet on "Methods of Selecting Double Flowered Stocks in the Seedling Stage," by Prof. S. L. Emsweller, will be included in all orders for Column Stock seed.

### GIANTS OF CALIFORNIA

This magnificent group comes very early, having the branching habit of the Bismarck, with mammoth flowers on longer stems. When planted close they make one long spike of mammoth florets closely packed around the stem.

Blood-Red "The Red Woods"	Rose "Yosemite"
Blue "Pacific"	Sequoia "Rose carmine"
Chamois "Santa Barbara"	Velvety Violet "Mojave"
Lavender "Tahoe"	White "Santa Maria"
Pink "Monterey"	Yellow "Golden Gate"
Each of the above, Trade pkt., 35c; 1/8 oz., 70c; 1/4 oz., \$1.25; oz., \$4.40.	

Giants of California Mixed. Trade pkt., 35c; 1/8 oz., 65c; 1/4 oz., \$1.20; oz., \$4.00.

### STOCKS—Continued

#### IMPROVED GIANT BISMARCK (Early Giant Imperial)

One of the best Stocks, for both inside and outside planting. The plants grow in pyramidal form, about 2 1/2 ft., are strong and robust and are covered with large double flowers. Plant close and take out center shoot as soon as safe to get more and longer side branches which that way produce more flowers.

Antique Copper.	Appleblossom. (Blush-pink).	
Buttercup. Deep golden yellow.		
★Chamois.	Dark Blue.	Elk's Pride. (Royal purple).
Flesh. Pale coral pink.	Fiery Blood-Red.	
Golden Rose.	★Lavender.	★Lilac.
★Shasta. Vigorous, glistening white.		★Rose.
Each of the above.....	1/8 oz., 65c; 1/4 oz., \$1.10	Trade pkt. Oz. \$0.35 \$3.40
Giant Bismarck, Mixed. All colors.....	1/8 oz., 65c; 1/4 oz., \$1.10	.35 3.40

#### "NON-BRANCHING" COLUMN STOCKS

These produce one enormous spike with large flowers, 2 to 2 1/2 ft. high, and can be planted close together in the bench, which makes them a profitable type. Are in season with Bismarck variety.

American Beauty. Rich deep carmine rose.  
 ★Apricot (No. 20). Strong growing buff with a faint pink tinge.  
 Blue. Dark lilac blue.  
 Chamois Pink. A warm rosy buff color.  
 Deep Apricot. Slightly darker color than Apricot No. 20 above.  
 Gardenia. Flowers of the purest white. About 10 days later than White No. 16, also taller. Needs disbudding.  
 Illusion. Scarlet red.  
 ★Lilac Lavender. Same as Silvery Lilac.  
 Pink (No. 11). Light rose-pink, exact shade of Bismarck Rose.  
 ★Rose Pink (No. 14). A deep selection from No. 11; a rose-pink, not a deep heavy rose. Good market color. Long-stemmed, about ten days later than No. 11.  
 Purple Heart. Long stemmed, bright violet purple.  
 Ruby. Rich crimson red.  
 ★Silvery Lilac. Lilac lavender.  
 ★Supreme. No. 22. Supremely fine in its rich silvery rose shading, with extra long stems and fine heavy spike.  
 ★Vaughan White No. 1. We especially recommend this; in our judgment, the finest pure white Non-Branching Column Stock in existence.  
 ★White, Improved No. 16. Semi-tall pure white.  
 ★Yellow Wonder. Best yellow.  
 Special Florist Mixed. Mixture of the best selling colors.  
 Each of above: 1/2 tr. pkt., 60c; tr. pkt. (about 1200 seeds), \$1.00; 1/4 oz., \$2.50; oz., \$9.00.

#### EARLY COLONIAL

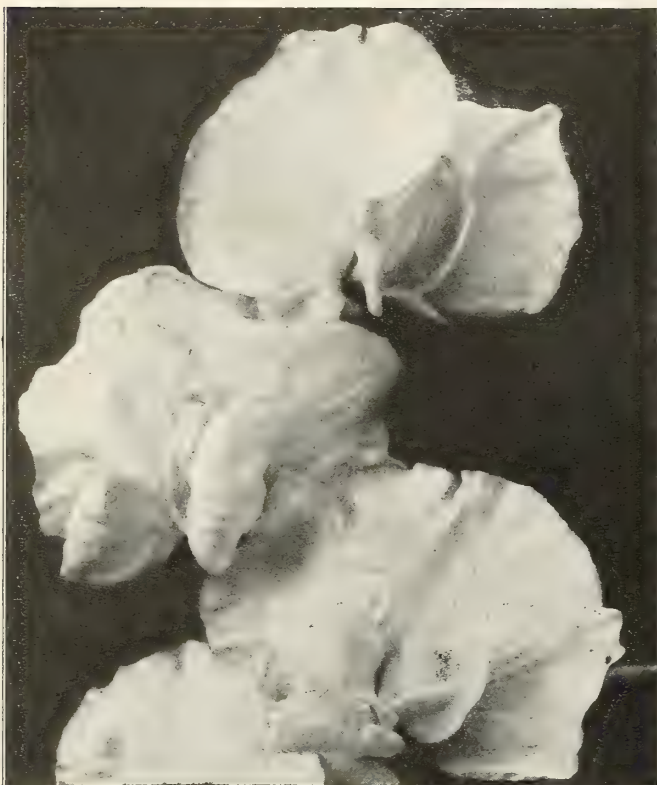
Blooms earlier than other branching types, grows 30 to 36 in. tall. The individual florets are 2 inches across and they form clusters or spikes 15 inches long. The percentage of double runs about 70%.

Mayflower. Red rose.	Puritan. Pure white.
Priscilla. Silvery lavender.	Rose Standish. Bright rose.
Mixed all colors. Each trade pkt., 35c; 1/4 oz., 75c.	

SAPONARIA Vaccaria Rose. Incorrectly spoken of as Pink Gypsophilia. The light graceful sprays of glistening flowers produced in greatest profusion.	Trade pkt. Oz.
..... 1/4 lb., 80c	... \$0.25
Vaccaria Alba. White..... 1/4 lb., 80c	... .25
Smilax..... 1/4 oz., 75c	\$0.35 ....
Smilax Myrtifolia. An improvement over the regular strain. Of the same growth habit; with smaller leaves..... 1/4 oz., 90c	.50 3.20
STATICE Suworowii. Russian. Also known as "Rat Tail." Flowers bright rose color. Sow inside for winter blooming in a cool house..... 1/4 oz., 40c	.15 1.20



# Sweet Peas Early-Flowering Spencer



SWEET PEAS, SPRING FLOWERING (Cuthbertson)

By the use of the star-symbol (★) we have indicated the varieties which, according to our experience, have proved the most satisfactory in the various colors and classes.

Nitragin for inoculating Sweet Pea Seed, Garden Size Packet, 10c. Sweet Peas should be inoculated with Nitragin before planting.

Any of the following,  $\frac{1}{2}$  oz., 30c; 1 oz., 50c;  
 $\frac{1}{4}$  lb., \$1.50; lb., \$5.50.

## BLUE, LAVENDER AND PURPLE

- Amethyst. An early-flowering "Royal Purple." Fragrant.
- Ball Blue Supreme. Much larger flowered than Mrs. Hoover, a long stemmed heavy producer.
- Blue Bird. Violet blue. Fragrant.
- Fragrance. Large frilled lavender flowers, for spring blooming.
- ★Harmony. Popular lavender, fragrant.
- Mariner. Clear marine blue.
- ★Mrs. Herbert Hoover. Bright blue. Fragrant.
- Princess Blue. Rich light blue.
- Tahoe. Midblue. Spring blooming.
- Top Hat. Deep velvety violet blue.
- ★Triumph. Deep lilac mauve.
- ★Twilight. A medium clear lavender.

## PINK, ROSE AND SALMON

- American Beauty. A rich crimson rose.
- ★Apollo. A soft salmon-cerise. Fine spring bloomer long stemmed.
- ★Ball Rose Improved. Extra rich deep rose.
- Ball Rose Supreme. Large wavy flowers of bright silvery rose pink.
- Ball Rose Queen. Extra long stemmed and large flowered clear rose pink.
- ★Boone. Deep salmon-pink.
- ★Bridesmaid. Deep silvery pink with stems unusually long.
- ★Daphne. A soft salmon-pink.
- Giant Rose Pink. Fragrant. Rose pink.
- Jeanne Mamitsch. Rose pink, long stemmed
- Josie. Brilliant rose-pink, vigorous, large flowers; long stems.
- ★Laddie Improved. Light rose-pink. Fragrant. Long stemmed.
- ★Mrs. R. H. Holscher. Rose-pink.
- New Ball Rose. Bright glowing rose. Very free flowering, but shorter vines make it valuable where headroom is limited.
- ★Sequoia. A rich golden salmon-rose.

## ORANGE

- ★Ball Orange Improved. Clear deep glowing orange.
- Fiesta. Brilliant orange cerise, definitely sunproof.
- ★Treasure Island. A sparkling golden orange.
- Valencia. Sunproof orange. Long stems for spring blooming.

## WHITE AND CREAM

- Ball White. Large flowered, long stemmed, pure white.
- Cascade. Very large flowered white, white-seeded.
- Gardenia. Fragrant velvety white flowers, ruffled and duplexed.
- ★Hope. A mammoth-flowered black-seeded pure white.
- Oriental. Black seeded cream.
- ★Snow Queen. Pure white, black-seeded. Sow to follow "mums."
- ★White Champion. Best early-flowering white-seeded white.
- ★White Harmony. A standard black-seeded white.

## SCARLET AND MAROON

- Bacchus. Mammoth flowered duplex. Rich red maroon.
- Grenadier. Dazzling scarlet.
- Pride. Pure cerise large flowers on long stems.
- Redwood. Dark velvety crimson.
- Sparks. Brilliant poppy scarlet.

Vaughan's Special Formula Mixture, Early Flowering Spencers from named sorts.  $\frac{1}{2}$  oz., 25c; oz., 45c;  $\frac{1}{4}$  lb., \$1.35; lb., \$5.00.

## Spring-Flowering (Cuthbertson)

The following list of Spring Flowering varieties represents the latest improvements in this increasingly popular class. They retain identical characteristics of the already popular Spring Flowering Peas in every respect, but represent further refinements and the addition of several new colors.

Seed should be sown from the middle or end of October to February in the greenhouse for flowering in spring and summer or outside just before ground freezes up.

- Billy. Light carmine.
- Carol. Clear pink, white ground.
- Coline. Scarlet.
- Danny. Brilliant navy blue.
- David. Bright rose crimson.
- Evelyn. Salmon cream pink.
- Frank G. Rosy lavender.
- Hazel. Light blue.
- Janet. Black seeded white.
- Jessie. Rich mauve shade.
- Kenneth. Rich ox blood crimson
- Lois. Rose pink white ground.
- Tommy. Clear medium blue.
- Each of the above.  $\frac{1}{2}$  oz., 35c; oz., 65c;  $\frac{1}{4}$  lb., \$2.00; lb., \$6.50.
- Mixed. All the above and others.  $\frac{1}{2}$  oz., 30c; oz., 55c;  $\frac{1}{4}$  lb., \$1.65; lb., \$5.50.

## Schizanthus

**Vaughan's Dwarf Masterpiece.** The plants grow Trade pkt Oz. dwarf and compact, making them most suitable for pot culture. The color range of the flowers, which are of good size, is the most varied, well balanced from light pink and rose, to a very pleasing dark violet, all with conspicuous blotches. ....  $\frac{1}{16}$  oz., \$1.00;  $\frac{1}{8}$  oz., \$1.65 \$0.50 .....

**Vaughan's Excelsior Hybrids.** A choice strain with very large flowers in an excellent blend of colors. A splendid cut flower item. ....  $\frac{1}{8}$  oz., \$1.10 .50 .....

**Wisetonensis Monarch Strain.** Finest strain of large flowered hybrids, rich colors and flowers of perfect form. ....  $\frac{1}{8}$  oz., \$1.25 .50 .....

**Dr. Badger's Hybrids.** Splendid large flowers with brilliant coloring, compact grower 8 to 10 in. tall. ....  $\frac{1}{4}$  oz., \$1.10 .35 .....

**Bridal Veil.** Pure white, excellent. ....  $\frac{1}{16}$  oz., \$1.20 .75 .....

**Pansy-flowered.** The large pansy-flowered blooms are remarkably substantial, while the rich self-colors in all shades of pink, crimson, mauve and purple, as well as white are extremely bright and attractive. ....  $\frac{1}{8}$  oz., \$1.00 .35 .....





ANCHUSA Italica Dropmore Variety



ALYSSUM Saxatile Compactum



ANEMONE St. Brigid's Hybrids

We recommend sowing perennial seeds in spring. Seed germinates better in the cool weather than in the heat of mid-summer, and the long growing season produces larger plants that winter over more successfully.

# Seeds of Biennials and Hardy Perennials

Perennials fill a large and interesting place in the operations of an up-to-date florist establishment. Some are as easily raised as annuals; quite a few may be forced; others make fine pot plants; and many furnish splendid cutting material. The rock garden requirements absorb all the low-growing varieties and the florist with his eye to the future will devote considerable space to perennials of all kinds. They require little heat, if any, and not much care.

## SEED GERMINATES SLOWLY AND IRREGULARLY

Of the following varieties and a seed bed should be prepared where it will be undisturbed for a year or more.

Aconitum, Anemone, Clematis, Delphinium Cardinale, Delphinium Nudicaule, Dictamnus, Dielytra, Iris, Phlox Decussata, Primulas Trollius and nearly all Alpines.

Rock Garden subjects are marked X.

<b>Achillea Ptarmica</b> Fl. Pl. The Pearl. Abundant small white flowers, for cutting, 30 in. ....	Trade pkt.	Oz.	
..... 1/8 oz., 60c; 1/4 oz., \$1.10.	\$0.35		
<b>Aconitum</b> (Monk's Hood). Napellus. Dark blue, 36 in. ....	.25		
Wilsoni. Mid-blue, large flowering. .... 1/4 oz., 85c	.25		
Barker's Variety. Branching habit, flowers pretty amethyst blue. .... 1/4 oz., \$1.00	.25		
<b>Adlumia Cirrhosa</b> . Allegheny Vine. Beautiful rose flowers. Maidenhair fern-like leaves are borne in great profusion on slender twining stems. ....	.35		
<b>Agrostemma Coronaria</b> Atrosanguinea (Rose Campion). Deep blood-red flowers, silvery woolly foliage, 28 in. ....	.15	\$0.50	
<b>Allwoodii</b> , see Dianthus.			
<b>Alyssum Argenteum</b> X Yellow-flowered, silvery foliage, 24 in. ....	.35		
Rock Garden Varieties Mixed. Many rare species mixed. .... 1/8 oz., 70c	.35		
Saxatile Compactum (Gold Dust). Golden yellow, 12 in. Blooms in spring. .... 1/4 oz., 30c	.15	1.00	
<b>Ampelopsis Veitchi</b> , Boston Ivy. Clean seed. ....	.25	1.00	
<b>Amsonia Tabernaemontana</b> . Free flowering long stems, with willow-like foliage and lovely heads of light blue flowers in panicles. Especially good for cutting and hardy border. 2 to 3 ft. ....	.50		
<b>Anchusa Italica</b> , Dropmore Variety. Large, gentian-blue, excellent perennial for cutting, 6 ft. 1/4 oz., 50c	.25	1.80	
Dwarf Dropmore Variety (Feltham Pride). Neat habit, flowers brighter blue than preceding. 3 ft. .... 1/4 oz., 60c	.25	2.00	
Lissadell. Clear gentian-blue. 6 ft. ....	.15	.80	
Morning Glory. Clear blue, a little lighter than Lissadell but quite similar. Height about 5 ft., coming very true. Buds appear a rosy mauve but turn to clear blue as they open. 1/4 oz., 45c	.25	1.40	
<b>Myosotidiflora</b> . X A charming plant with the exquisite blue flowers of the forget-me-not, carried on 2 ft. high stiff stems. Large heart-shaped basal leaves, for rock garden or border. Flowers in April and May. This seed should be placed in refrigerator for 72 hours before sowing. 1/8 oz., \$1.00; 1/4 oz., \$1.80	.50		

<b>Anemone</b> (Windflower), Coronaria. St. Brigid's Hybrids (Irish Champions). Irish-grown St. Brigids are largely favored by commercial growers on account of the lasting quality of the bloom, length of stem, and the brilliancy of colors. 18 in. ....	1/4 oz., 85c	\$0.50	\$3.00
<b>Pulsatilla</b> . X The Pasque Flower. A singularly beautiful species with violet flowers, whole plant covered with silky hairs, needs a dry situation. Blooms in April to June. 12 in. .... 1/8 oz., \$1.25	.50	8.00	
<b>Anthemis Kelwayii</b> (Hardy Marguerite). Daisy-like lemon-yellow blossoms, produced all summer, 3 ft. ....	.15	.60	
<b>Tinctoria</b> . Very useful yellow border plant, 2 to 3 ft. .... 1/4 oz., 40c	.25		
Perry's Variety. Light yellow, varies 2 ft. 1/4 oz., 40c	.25	1.40	

## AQUILEGIA X (Columbine)

<b>Alpina</b> . Blue. A beautiful short-spurred form, 24 in. ....	1/4 oz., 80c	.35	
<b>Canadensis</b> . Native variety, bright red and yellow, 30 in. ....	.35		
<b>Chrysantha</b> . Light chrome-yellow, fine, 36 in. 1/4 oz., 80c	.35	2.80	
<b>Chrysantha Silver Queen</b> . Long-spurred silvery white, 2 ft. .... 1/4 oz., 90c	.35	3.20	
<b>Clematiflora</b> . Mixed, Spurless Columbine with beautiful open flowers like Clematis. Contains all lovely pastel shades. ....	.50		
<b>Blue Heaven</b> . A lovely deep lavender throughout, and has several extra petals but has completely lost its spurs. It resembles a double large flowered Clematis on erect stem with a center of bright yellow stamens. It requires drainage and its color is loveliest in semi-shade. ....	1.00		
<b>Coerulea Blue</b> . X Sky-blue with white corolla. Rocky Mt. Columbine. .... 1/4 oz., 80c	.35	3.00	
<b>Coerulea</b> . Mrs. Nicholls. Deep blue and bolder flower than Coerulea blue. .... 1/16 oz., 80c; 1/8 oz., \$1.40	.50		
<b>Rose Queen</b> . Shades of rose with white corolla, 30 in. .... 1/4 oz., \$1.20	.35	4.00	

Unless otherwise quoted we supply 1/2 oz. at the ounce price and 4 ozs. (of a variety) at the pound price.





AQUILEGIA Mrs. Scott Elliott's Strain



ARMERIAS Are Fine for Cutting



ARABIS Alpina

## Seeds of Biennials and Hardy Perennials

### AQUILEGIA (Columbine)—Continued

	Trade	pkt.	Oz.
Flabellata Nana Alba. Pure white early flowering 12 inch.....	\$0.50		
Hansol Harebell. Dwarf compact habit, lovely violet blue.....	1/16 oz., \$1.40	.50	
Longissima. Long-spurred delicate yellow.....	1/8 oz., \$3.00; 1/16 oz., \$1.60	.50	
Longissima Hybrids. Very long-spurred variety in many attractive shades.....	1/16 oz., \$2.00	.50	
Long-Spurred Blue Shades.....	1/8 oz., \$1.00	.50	
Copper Queen. Copper-red, straw-colored corolla, variable in shade, 18 in.....	1/8 oz., \$1.00	.50	
Crimson Star. Long spurs of rich crimson, the center is white tinged carmine, flowers 3 in. across on 2 ft. stems. Varies.....	1/8 oz., \$1.50; 1/4 oz., \$2.75	.50	\$9.00
Dobbie's Imperial Hybrids. A very fine selection made by a European hybridizer.....	1/4 oz., \$1.20	.35	4.00
Orange and Scarlet Shades.....	1/4 oz., \$1.20	.50	4.00
Mrs. Scott Elliott's Strain. The blooms are of large size and the spurs very long. The colors range through shades of lavender, mauve, blue, purple, white, cream, yellow, pink, red, etc.....	1/4 oz., \$1.00	.35	3.50
Vaughan's Super Long Spurred Mixture. Flowers of enormous size in brilliant color range, 3 to 4 in. spurs. Exclusive with us.....	1/8 oz., \$2.00	1.00	
Vaughan's Special Mixture. All types.....	1/4 oz., \$1.00	.35	3.60
Arabis X Alpina. White flowers in dense masses. 1 ft.....	1/4 oz., 55c	.25	
Alpina Nana Compacta. White, 8 in.....	1/4 oz., 70c	.35	2.40
Rosea. Pink, 1 ft.....	1/4 oz., \$1.20	.35	
Pumila Snow Cap. Shining snow white compact cushions.....	1/4 oz., 70c	.35	
Armeria X Alpina. Deep rose, 3 in.....	1/8 oz., \$2.40	.75	
Formosa Hybrida Rose.....	1/8 oz., 75c	.35	
Formosa. Large Flowering Hybrids. 2 ft. 1/8 oz., 75c		.35	
Glory of Holland. Giant Pink. The clear, deep, pink flowers of the size of a silver dollar are borne on straight, tall stems of 24 inches high, throughout the summer. Extra fine for cutting.....	1/8 oz., \$2.00	.50	
Asclepias Tuberosa (Butterfly Weed). Produces umbels of varying orange colored flowers, lovely to cut and last a long time. 24 in.....	1/4 oz., 85c	.25	2.75
Asphodelus Luteus. Yellow, fragrant, 3 ft.....		.35	
Aster Perennial. Alpinus. Goliath. X Soft blue, largest-flowered fine, 15 in.....	1/8 oz., \$1.40	.75	
Alpinus. Fine light blue, 1 1/2 ft.....	1/4 oz., \$1.50	.50	
Mixed.....		.50	
Amellus Hybridus. Named varieties, finest mixed 30 in.....		.50	

	Tr.	pkt.	Oz.
Aubrietia. Large-Flowered Hybrids. X Lovely dwarf spring blooming plants. Form beautiful cushions of foliage and flowers. 6 in.....	1/4 oz., 80c	\$0.25	\$2.80
Deltoidea. X Lilac, 6 in.....		.35	
Eyrii. X Free flowering large blue.....		.35	
Graeca. Large blue free-flowering, 6 in.....	1/4 oz., 75c	.35	
Hendersoni. Large purple flowers, 6 in.....	1/4 oz., 60c	.25	
Leichtlini. X Large-flowered, rosy-purple.....		.50	
Purpurea. True deep purple.....		.50	
Royal Hybrids. Colors range through lavender and rosy-magenta shades to mauve. Flowers extremely large; 50% are double.....		.75	
Whitewell Gem. X Glowing rosy purple with slight tinge of blue, 6 in.....		.35	
Auricula. See Primula.			
Baby's Breath. See Gypsophila Paniculata.			
Baptisia Australis (False Indigo). Beautiful racemes of pea-shaped indigo-blue flowers.. 2-4 ft.....		.20	.75
Bellis Perennis X or English Daisy.			
Longfellow. Double dark rose.....	1/8 oz., 70c	.25	
Snowball. Double white.....	1/8 oz., 70c	.25	
Monstrosa Double Pink.....	1/16 oz., \$1.00; 1/8 oz., \$1.80	.50	
Double Crimson. Definitely red.....	1/16 oz., \$1.00; 1/8 oz., \$1.80	.50	
Double White.....	1/16 oz., \$1.00; 1/8 oz., \$1.80; 1/4 oz., \$3.00	.50	
Double Red. (Dark rose).....	1/16 oz., \$1.00; 1/8 oz., \$1.80	.50	
Double mixed.....	1/16 oz., \$1.00; 1/8 oz., \$1.80	.50	
Tubulosa Aetna. Rich deep red.....	1/16 oz., \$2.00	.75	
Tubulosa Pink. Quilled pink.....		.75	
Bocconia Japonica (Plume Poppy). The plants grow 6 to 7 ft. high and the large finely-cut leaves are topped by huge flower spikes, carrying creamy white blossoms.....		.25	
Boltonia Latisquama. Delicate pink, 4-5 ft.....	1/4 oz., \$1.00	.35	
Callirhoe Involucrata. X Large crimson flowers, trailing habit, very showy, 6 in.....	1/4 oz., 85c	.35	

### CAMPANULA PERENNIAL SORTS

Carpatica X (Hare Bell). Forms a quickly-widening tuft of neat foliage above which are borne on slender, branched erect stems, wide cup-shaped upright blooms of a glistening light violet blue, 9 in.....	1/8 oz., \$1.00	.35	
Alba. X White, 9 in.....	1/8 oz., \$1.50	.50	





CAMPANULA Medium Single



CAMPANULA Medium Calycanthema



BAPTISIA Australis

## Seeds of Biennials and Hardy Perennials

### CAMPANULA Perennial Sorts—Continued

Cullinmore. A lovely hybrid form of Carpatica and other dwarf-growing species. Much more prolific than Carpatica. Its flowers of various shades of blue are produced all summer. Very nice edging plant or for the rock garden.	Tr. pkt. Oz.	
.....	.....	\$0.75
Fragilis. Blue Star of Bethlehem. Blue, splendid for hanging baskets.	.....	75
Garganica. X A compact and tufty plant with pendant flowering branches. The flowers are blue with a white eye. 4 in.	.....	75
Lactiflora Coerulea. Light blue, 3 ft.	1/8 oz., 75c	50
Latifolia Macrantha. Blue, large-fl., 40 in.	.....	50
Persicifolia (Peach Bell) Alba. White, fine, 30 in.	.....	35
Coerulea Blue.	.....	35
Telham Beauty. Very large bells of China blue, varies, 30 in.	.....	50
Mixed.	1/4 oz., \$1.00	35
Pyramidalis Alba. White, 5 ft.	1/8 oz., \$1.00	50
Blue. Lavender-blue, 5 ft.	1/4 oz., 70c	35
Mixed.	1/8 oz., \$1.00	35
Rapunculoides. Spikes of loosely swung bell-blossoms, beauty for months on end. Variable coloring, from soft blue to deep violet. A row of it becomes a hedge of bloom, and it has perhaps the longest flowering season of any Campanula.	1/4 oz., 75c	35
Rotundifolia (Scotch Blue Bell). X Slender branching stems, covered with dainty frail blue flowers. Blooms in July and again in fall, 6-12 in.	.....	50
Perennial Varieties. Mixed.	1/4 oz., 90c	35
Rock Garden Varieties. Mixed.	.....	35

### CAMPANULA BIENNIAL SORTS

Medium Calycanthema, Cup and Saucer. Dark Blue, Lilac, Rose and White. 36 inch each.	1/4 oz., 50c	20	1.60
Calycanthema Mixed.	1/4 oz., 50c	20	1.60
Single. Canterbury Bell. Blue, Lilac, Rose, White, 36 in., each.	1/4 oz., 25c	15	.80
Mixed, single.	1/4 oz., 25c	15	.80
Double Blue.	1/4 oz., 70c	25	.....
Rose.	1/4 oz., 70c	25	.....
White.	1/4 oz., 70c	25	.....
Mixed.	1/4 oz., 70c	25	.....
Double and single mixed.	1/4 oz., 50c	20	1.60

Candytuft X Gibraltarica. 1 ft. Large flowers, lilac shaded to white.	1/4 oz., 50c	\$0.25	\$1.60
Jucunda. Dwarf pink, 4 in.	.....	.50	.....
Sempervirens, 12 in. White.	1/4 oz., \$1.20	.50	4.50

### CARNATION

Grenadin Golden Sun. Golden yellow.	.....	50	8.00
.....	1/8 oz., \$1.40; 1/4 oz., \$2.50	.....	.....
King of the Blacks. Darkest red, very fine. 20 in.	.....	.50	8.00
.....	1/8 oz., \$1.40; 1/4 oz., \$2.50	.....	.....
Red. Half high. 20 in.	1/8 oz., \$1.40; 1/4 oz., \$2.50	.50	8.00
Triumph Rose, 20 in.	1/8 oz., \$1.40; 1/4 oz., \$2.50	.50	8.00
White Gold. Soft yellow.	.....	50	8.00
.....	1/8 oz., \$1.40; 1/4 oz., \$2.50	.....	.....
White, 20 in.	1/8 oz., \$1.40; 1/4 oz., \$2.50	.50	8.00
Mixed.	1/8 oz., \$1.40; 1/4 oz., \$2.50	.50	8.00
Dwarf Bright Scarlet. Double flowers of rich intense scarlet. Blooms from seed the first year if sown early. Very uniform. 15 inches.	.....	50	8.00
.....	1/8 oz., \$1.40; 1/4 oz., \$2.50	.....	.....
Vienna Dwarf. Mixed.	1/8 oz., \$1.00	.50	.....
Prof. Malmgreen. A new early flowering Vienna dwarf double type with gay brick red flowers. Fine for cutting. 14 in.	1/8 oz., \$1.00; 1/4 oz., \$1.80	.50	6.00
Cassia Marylandica (Indian Senna). Racemes of showy yellow flowers. 30 in.	1/4 oz., 60c	.25	2.00
Centaurea Dealbata. Rose Delight. Large and striking rose pink flowers. Graceful silvery leaves. 18 in.	1/4 oz., 60c	.35	.....
Macrocephala. Radiant yellow thistle-like blooms often 4 in. across. 36 in.	1/4 oz., 45c	.25	1.50
Montana. Cornflower blue, 24 in.	1/4 oz., 40c	.25	1.20
Perennial sorts mixed.	1/4 oz., \$1.25	.35	4.00
Cerastium X Tomentosum (Snow in Summer). Silvery white foliage, white flowers. 16 in.	1/4 oz., 60c	.25	2.00
Cheiranthus Allionii. Brilliant orange. 16 in.	1/4 lb., \$1.40	.15	.40
Golden Bedder. Deep golden yellow flowers, sweetly scented, long-flowering.	1/4 oz., 30c	.15	1.00
Kewensis, Winter-blooming Wallflower. Fragrant flowers, sulphur passing to gold and violet, 30 in.	1/4 oz., 75c	.35	.....
Linifolius. Lilac. 18 in.	1/4 oz., 40c	.25	1.40
Chelone. See Penstemon Barbatus.	.....	.....	.....

Rock plants are followed by X, and the heights given are of the plants when in bloom.





SHASTA DAISY Alaska



COREOPSIS Double Sunburst



CARNATION Grenadin Mixed

## Seeds of Biennials and Hardy Perennials

### CHRYSANTHEMUM

Maximum Conqueror (Victor). Giant-flowered white Trade pkt. Oz.  
 ..... ¼ oz., 30c \$0.15 \$1.00  
 King Edward VII. White. .... ½ oz., 50c .25  
 Mrs. C. Lothian Bell. Single white. 3 ft. ½ oz., 50c .25  
 See also Shasta Daisy.

Korean Hybrids. Seed saved from a large acreage of experimental crosses representing a wonderful range of magnificent colors. Large-flowering single and semi-double. .... ½ oz., \$2.00; ¼ oz., \$3.50 1.00

Clove Pink. See Dianthus Plumarius.

Columbine. See Aquilegia.

Coreopsis Lanceolata Grandiflora. Very large golden yellow flowers, long-stemmed, excellent for cutting, ..... lb., \$3.60 .15 .35  
Double Sunburst (Double Gold). Large double flowers 1½ to 2 in. across. .... ¼ oz., 30c .15 1.00  
Mayfield Giant. Best large deep golden-yellow. .... ¼ oz., 25c .15 .80

Cyclamen Europaeum. An outstanding rock garden plant. Blooms in July or August. The flowers are fragrant and usually of a deep rose color. Requires rich humus soil that is well drained. Seed germinates irregularly. Leaflet on culture furnished with seed. 100 seeds, \$1.00.

Daisy. See Bellis, Chrysanthemum Maximum and Pyrethrum.

Daisy, Shasta, Alaska. Best white, American-grown, 40 in. .... ¼ oz., 40c .20 1.20

Giant Double Shasta Reselected. Flowers five inches across resemble giant asters, on long wiry stems. Blooms over a period of several months. The first year flowers appear with a high percentage of singles. The second year they act like Pyrethrum Double in that they show practically 100% doubles. ½ oz., \$1.25; ¼ oz., \$2.00; ¼ oz., \$3.75 .50

Shasta Daisy G. Marconi Reselected. The largest Shasta Daisy today, the flowers are around seven inches in diameter and stems 2½ to 3 feet long. .... ½ oz., \$1.50; ¼ oz., \$2.75 .50

### SUBSTITUTION

Kindly advice, may we substitute another variety equally as good or better by stating on your order "Substitute if necessary."

## Delphinium

PACIFIC GIANT (Vetterle and Reinelt). This strain produces plants that are 60 to 65 per cent mildew resistant. The flowers are of immense size, tightly set on straight stems that are strong and whippy. The flowers **do not shatter** and represent a truly outstanding addition to the cut flower market.

Blue Jay. Brilliant true medium blue with dark bee.

Cameliard Series. This is a pure lavender self, with white bee.

Galahad Series. Clear white of enormous size, averaging three inches in diameter of individual flowers with very heavy glistening texture. Guinevere. Light pink lavender self with white bee.

King Arthur. Brilliant royal violet with large white bee.

Summer Skies. Clearest light blue with white bee.

Round Table Series. As the name implies, this represents all of the color combinations of the above Knights and their Ladies.

Each of the above, Trade pkt., \$1.25; ½ oz., \$2.50; ¼ oz., \$4.00; oz., \$14.00.

Black Knight Series. Deep mid-night violet. The darkest of them all. Flowers of beautiful round form, with heavy velvety texture. 1948 crop will be available in August. Trade pkt., \$1.25; ½ oz., \$2.50; ¼ oz., \$4.00.

Blue Bird. A clear medium blue with white bee with huge tall spikes. Trade pkt., \$1.25; ½ oz., \$2.50; ¼ oz., \$4.00.

Pacific Giant. Clear White. Individual florets 2 to 2½ inches in diameter. Well placed on large well balanced spikes. Clear glistening white with heavy texture. Excellent for show purposes. Not Mildew resistant.

Pacific Giant. Dark blue shades.

Pacific Giant Lavender Pastel Shades. Color range from light lavender to deep smoky lavender, generally of two tone combinations with brown or black bees.

Pacific Giant. Light blue shades.

Pacific Giant Mixed.

Each of above 5: Trade pkt., \$1.00; ½ oz., \$2.00; ¼ oz., \$3.50; oz., \$12.00.

Blackmore and Langdon Strain, Mixed. Tall, graceful Tr. pkt. Oz. spikes covered with blooms. All the clear shades of blue with many delightful opaline variations, with bees of contrasting colors. .... ¼ oz., 90c \$0.50 \$3.00

Wrexham Strain (Hollyhock Delphinium). The chief distinguishing features of the "Hollyhock" Delphiniums are the extraordinary length and the tapering and spire-like shape of the spikes; the indescribably rich and varied tints; the very remarkable extension of the flowering period. Mixed. .... ½ oz., 80c; ¼ oz., \$1.50 .50 5.40





DELPHINIUM PACIFIC GIANT HYBRIDS

## Seeds of Biennials and Hardy Perennials

### DELPHINIUM—Continued

	Tr. pkt.	Oz.
Belladonna. Light Blue, Improved. Light blue, large-flowered, strong grower. 4 to 5 ft. ....	1/4 oz., 80c; lb., \$35.00	\$0.40 \$2.80
Bellamosum Improved. Large deep blue flowers, uniform in color with a white bee. 4 to 5 ft. ....	1/4 oz., 80c; lb., \$35.00	.40 2.80
Cardinale, scarlet, 30 in. ....	1/4 oz., 75c	.35 2.80
Chinense Album Grandiflorum. White, 36 in. ....	1/4 oz., 35c	.20 1.20
Blue. Gentian blue. ....	1/4 oz., 35c	.20 1.20
Blue Mirror. This Chinese Larkspur has no spurs and it shows its bright navy-blue flowers most effectively by their horizontal position. Height 1 1/2 to 2 feet. May be cultivated as an annual as well as perennial, and is finely suited for cutting purposes, for groups and borders. ....	1/4 oz., \$1.00	.50 3.60
Cambridge Blue. Rich belladonna blue. ....	1/4 oz., 65c	.35 2.20
Azure Fairy. Soft azure-blue, 20 in. ....	1/4 oz., 35c	.20 1.20
Nudicaule ① □. Brilliant scarlet, 30 in. ....	1/4 oz., 75c	.35 ....

### DIANTHUS BARBATUS—Sweet William

Double Dwarf Midget Mixed. ....	1/4 oz., 85c	.35 3.00
Giant Flowered Mixed. ....	1/4 oz., 80c	.35 2.80
Seedlings of all Double Sweet Williams produce about 40 per cent of single-blooming plants.		
Single Blood-red (Atrosanguineus). ....	1/4 oz., 50c	.25 1.60
Copper Red. Showy flower heads composed of numerous good-sized individual blooms in an attractive new color. ....	1/4 oz., \$1.00	.35 ....
Special Giant White. Phlox-flowered. Enormous trusses of bloom. Fine for cutting. ....	1/4 oz., 75c	.35 2.40
Homeland. A most unusual color, dark red with large, sharply defined clear white center. ....	1/4 oz., \$1.00	.50 3.80
Nigrescens. Very dark, almost black. ....	1/4 oz., 50c	.25 1.60
Newport Pink Salmon-pink. ....	1/4 oz., 75c	.35 2.40
Purple Beauty. ....	1/4 oz., \$1.00	.50 ....
Scarlet Beauty. Scarlet. ....	1/4 oz., 75c	.35 2.40
Mammoth Flowered. Single mixed. ....	1/4 oz., 75c	.35 2.40
Vaughan's Special Mixture. Double and single of above choice varieties. ....	1/4 oz., 80c	.35 2.80

Rock plants are followed by X, and the heights given are of the plants when in bloom.



### SWEET WILLIAM Single "Midget" MIXED COLORS

The habit of this Sweet William Dwarf Alpine Mixed is of a ball type, grows from three to four inches tall. The blooms, which almost entirely cover the foliage, are quite large flowered. This little Sweet William makes a wonderful perennial border and spring pot plant. The color range is from white, chamois, salmon, scarlet, brick red to maroon, with most of the blooms being tri-colored.

Trade pkt., 50c; 1/4 oz., \$1.40; oz., \$5.00.

### DIANTHUS—Continued

#### DIANTHUS PLUMARIUS—Clove Pinks X

Trade pkt. Oz.

Cyclops. Red Hybrids. ....	1/4 oz., \$1.00	\$0.35 ....
Highland Rose Hybrids Mixed. Beautiful and varied mixture, especially noted for their fragrance and long flowering. ....	1/4 oz., \$1.00	.35 \$3.60
Ipswich Strain Mixed. The delicately perfumed Clove Pink, an old garden favorite with flowers usually single but sometimes double, in many delightful changes of coloring and marking. ....		.50 ....
Little Jock Hybrids. The compact plants produce a multitude of pretty fringed flowers, about an inch across, in varied tints of pink, rose and white, mostly with a deep zone, and quite 50% of them are double. ....		.50 ....
Scoticus Double Special Florist Strain. Self colors of various tints of pink, rose, salmon and white and the same colors in combination with a bright crimson zone. Stems 12 to 15 inches. Blooms 1 1/2 to 2 inches. Free flowering. ....	1/4 oz., \$1.00	.35 ....
Spring Beauty. Double giant-flowered carnation-like in form and size and with a beautiful color range. Very fragrant. ....	1/4 oz., \$1.40	.50 5.00
Single Mixed. ....	1/4 oz., 40c	.15 1.35
Semperflorens. Double Mixed. ....	1/4 oz., 60c	.30 ....
Double Early-Flowering. Dwarf Mixed. ....	1/4 oz., \$1.00	.35 ....
Vaughan's Special Mixture. ....	1/4 oz., 90c	.35 3.20

### DIANTHUS—SORTS

Allwoodii. X 18 in. Mixed colors. Double, semi-double and single flowers in a wide color range. ....	1/8 oz., \$1.00	.35 ....
Alpinus. Mixed colors. X 4 to 8 in. Glossy leaves, large flowers various shades of pink and rose. ....	1/8 oz., 90c	.35 6.00
Arenarius. Sand Pink. Small white fringed. 8 in. ....		.35 ....
Caesius (Cheddar Pink). X Dense tufts of glaucous blue foliage and large fragrant rose-colored flowers. ....	1/4 oz., 65c	.25 2.20
Carthusianorum Giganteus 40 in. The tallest Dianthus, mahogany buds open to clustered rose colored flowers. ....		.35 ....
Delight. There is a bewildering range of colors, from the palest pink down to the deepest purple; the predominating shades are velvety rich reds; many have the eye of a Sweet William. ....	1/8 oz., \$1.00	.35 ....





DICTAMNUS Fraxinella (Gas Plant)



MYOSOTIS Blue Eyes



DIGITALIS Shirley Hybrids

## Seeds of Biennials and Hardy Perennials

### DIANTHUS SORTS—Continued

Trade pkt. Oz.

Deltoides (Maiden Pink). Rosy magenta 9 in. 1/4 oz., 65c	\$0.25	\$2.40
Brilliant. (Maiden Pink) 8 in. Rich rose pink blossoms, carried above fine feathery foliage. 1/8 oz., 75c	.35	....
Erecta Red.....	.35	....
Mixed. Fine for rock gardens.....	.35	....
Knappi. Clusters of clear golden yellow flowers appear above the grassy green foliage.....	.50	....
Latifolius Atrococcineus Plena. A beautiful outdoor Pink, of deep crimson color, semi to full double flowers, borne on stout 15 to 18 in. stem.....	1/8 oz., 90c; 1/4 oz., \$1.50	.25 4.50
Loveliness. Large lacinated petals of a most exquisite mauve pink, but the most fascinating of all is their delightful fragrance.....	1/8 oz., \$1.20	.50
Sweet Wivelsfield. Single, mixed. Especially adapted for perennial borders and rock gardens. Excellent cut flower. 1 ft.....	1/4 oz., 30c	.15 1.00
Sweet Wivelsfield. Double, mixed.....	1/4 oz., 60c	.25 2.20
Best Rock Work Species Mixed X.....	1/4 oz., 80c	.25 2.80
Winteri. A pink of striking beauty. Single, bold form, delightful pure colors, fragrant, blooms from seed first year. Compact habit, 9 in., 1/16 oz., 80c		.50

Dicentra Eximia (Plumy Bleeding Heart). Dwarf. 12 in.....	1/4 oz., \$1.00	.35 3.60
Dictamnus Fraxinella (Gas Plant). Pink flowers with dark veins, 30 in.....	1/4 oz., 50c	.25 1.75
Fraxinella Albus. White, 30 in.....	1/4 oz., 70c	.35 2.60
Dielytra Spectabilis. (Bleeding Heart). 32 in., 1/16 oz., \$1.75; 1/8 oz., \$3.25		1.00

### DIGITALIS (Foxglove)

Hybrida Lutzii. Salmon hybrids. 4 ft.....		.25
Gloxiniiflora. Mixed, spotted flowers, 4 ft.....	1/4 oz., 50c	.25 1.60
Alba. White.....	1/4 oz., 50c	.25
Purple.....	1/4 oz., 50c	.25
Rose.....	1/4 oz., 50c	.25
Pastel Shades. Distinct shades of pink, apricot, buff, rose and heliotrope.....	1/4 oz., 75c	.30
Shirley Hybrids. Mixed. Enormous flowers, rich mixture, 6 to 7 ft.....	1/4 oz., 60c	.25 2.20
Purpurea Monstrosa. Mixed, 3 ft. Long spikes surmounted by one enormous flower.....		.25
Grandiflora. Chrome-yellow. Marked with brown. (Ambigua), 36 in.....	1/8 oz., 70c	.35
Vaughan's Special Mixture.....	1/4 oz., 60c	.25 2.00

**Doronicum** or Leopard's Bane is an exceedingly satisfactory spring flowering perennial of much beauty. The large daisy like flowers are fine for cutting.

### DORONICUM—Continued

Trade pkt. Oz.

Caucasicum Large yellow heads showy border plant especially in combination with blue or lavender Tulips.....		\$1.00
Caucasicum Magnificum. Gerbera like flowers of clear yellow. Height 2 ft.....		1.00
Echinops (Globe Thistle) Ritro. Showy thistle like plants with globular heads of deep metallic blue flowers, which can be dried as everlasting. Grow in clumps in full sun.....	1/4 oz., 1.25	.35 \$4.00
Edelweiss. X Large flowered, 6 in.....		.50
Erinus X Alpinus. Purple, for borders, 6 in.....		.50
Eryngium Amethystinum. True amethyst-blue thistle with amethyst stems and bracts. Fine for cutting, 3 ft.....	1/4 oz., 70c	.25 2.40
Euphorbia Corollata (Wild Baby's Breath). Resembles Gypsophila but the flowers are larger and more pronouncedly white. Blooms in midsummer. Valuable for bouquets. Leaves turn a rich wine color in fall. Will stand any amount of drought. 2 ft.		.35
Myrsinites. A prostrate plant with beautiful bluish foliage, heads of yellow flowers. Spring 3 in.....		.35
Polychroma. The flowers are bright yellow changing to a rosy bronze. 15 to 18 in.....		.50

### FORGET-ME-NOT X (Myosotis)

Alpestris Blue Eyes. Bright blue with white eye, large, early flowering.....	1/4 oz., \$1.40	.35 5.00
Indigo Blue (Royal Blue). 12 in.....	1/4 oz., 95c	.35 3.20
Blue Compacta. Deep blue. 1/8 oz., 90c; 1/4 oz., \$1.60		.35 6.00
White.....	1/4 oz., 95c	.35
Robusta Grandiflora Blue. An improved Alpestris Blue. Double central flower.....	1/4 oz., \$1.40	.35 5.00
Palustris. Semperflorens. Dwarf, blue, in flower from early spring until autumn, 1 ft.....	1/4 oz., 75c	.35 2.40
Stricta. Blue Bouquet. A compact, upright grower of the column type, completely smothered with flowers of bright blue. 1 ft. 1/8 oz., 80c; 1/4 oz., \$1.50.		.35
Victoria. Dwarf globular strain. 8 in.: Sky-blue. Excellent variety.....		.35
White.....		.35
Vaughan's Early Blue Bird. An extra early flowering strain of Blue Bird type and color. Should be used for cutting and valuable for pots or bedding.....	1/4 oz., 85c	.35 3.00

Rock plants are followed by X, and the heights given are of the plants when in bloom.





GAILLARDIA Grandiflora Monarch Strain



HOLLYHOCK Chater's Double Mixed



GERBERA Jamesoni Flowerland Strain

## Seeds of Biennials and Hardy Perennials

### GAILLARDIA Grandiflora

	Trade pkt.	Oz.
<b>Aurea Pura.</b> Pure yellow flowers, 4 to 5 in. in diameter on long strong spikes. ....	1/4 oz., 50c	\$0.25 \$1.80
<b>Burgundy.</b> Self colored wine-red, 2 1/2 in. diameter, on long stiff stems, from June until fall. Comes 60% to 70% true, 30 in. ....	1/4 oz., 65c	.25 2.20
<b>Dazzler.</b> Large flowers, bright golden yellow with rich maroon-red center. 3 ft. ....	1/4 oz., 50c	.25 1.75
<b>Goblin.</b> Very compact globular plants, red and yellow bicolor. ....	1/4 oz., 70c	.35 2.60
<b>Monarch Strain.</b> A robust strain very varied in coloring and with flowers of giant size and perfect form ....	1/4 oz., 50c	.25 1.80
<b>Portola Hybrids.</b> The flowers are very large, of great substance. Color a brilliant scarlet with copper hue. Petals heavily tipped with golden yellow. 2 1/2 to 3 ft. ....	1/4 oz., 50c	.25 1.80

**Gas Plant,** see Dictamnus.

**Gentiana Acaulis.** Gentian-blue, beautiful for edging. 5 in. .... .35

**Gerbera Jamesoni.** New Flowerland strain. A popular greenhouse forcing perennial plant, fine for cutting. New seed is always available, as it is harvested at intervals during the year. ....  
.... 100 seeds, 45c; 500 seeds, \$1.75; 1000 seeds, \$3.00 ....

**Geum Boreale.** (True). Is an evergreen species with foliage rather prostrate and branching flower stems 8 to 12 in. long. Orange scarlet flowers produced abundantly over a long period. .... 1/8 oz., \$1.40 50

**Lady Stratheden (Golden Ball).** The blooms are large double rich golden yellow. 2 ft. .... 1/4 oz., 70c .25 2.60

**Mrs. Bradshaw.** Large double fiery orange red. 2 ft. .... 1/4 oz., 70c .25 2.60

**Prince of Orange.** True orange. .... 1/8 oz., 85c .50

**Gilia Coronopifolia Red.** 3 1/2 ft. (Standing Cypress.) The flowers are 1 1/2 inches long, trumpet shape, borne along the side of the stem. A biennial. .... 1/8 oz., 60c .35

### GRASSES, Ornamental

**Eulalia Japonica.** Zebra Grass. .... 1/4 oz., 50c .35 1.50

**Festuca Glauc.** True blue grass with dense glaucous tufts. Blue stemmed grass. .... 1/4 oz., 35c .25 1.00

**Gymnethrix Latifolia (Pennisetum Latifolium).** 36 in. .... 1/4 oz., 75c .25 2.40

**Gypsophila Mangini.** A splendid florist cut flower, Tr. pkt. Oz. strong growing "Pink Baby's Breath." 2 ft. 1/4 oz. 65c \$0.35 \$2.20

**Oldhamiana.** Great tangles of airy, misty blooms in pink shades. The florets are slightly more than a quarter of an inch in diameter and possess a white throat. Blooms in fall. The foliage is silvery overcast. .... 1/4 oz., 65c .25 2.20

**Pacific.** Starry pink blossoms on branching panicles. Good cut flower. Sept. and Oct. 4 ft. .... 1/4 oz., 80c .25 3.00

**Paniculata Snow-White Double.** Pure white double strain. 2 ft. .... 1/4 oz., \$1.25 .50 4.40

**Paniculata White.** Small single white flowers in great profusion, useful for cutting. 40 in. 1/4 lb., \$1.60 .15 .50

**Repens X White flowers,** trailer, good border or rock plant. 6 in. .... 1/4 oz., 70c .25 2.40

**Rosea.** Pink. .... 1/4 oz., 85c .25 3.00

**Helenium Bigelowi.** Yellow dark disc, for cutting. 20 in. .... .35

**Hoopesi.** Yellow. Early flowering. 30 in. .... 1/4 oz., \$1.20 .35

**Riverton Gem.** Flowers open as old gold and terracotta changing to wallflower red. 3 1/2 ft. .... .35

**Heliopsis Laevis Pitcheriana.** Golden yellow, 4 ft. .... 1/4 oz., 55c .35

**Helianthemum X Mutabile.** Mixed Colors. (Rock Rose.) Low-growing evergreen plants forming large clumps, completely covered with bloom during July and August. 8 to 12 in. .... 1/4 oz., 40c .20 1.40

**Helleborus Niger.** Christmas Rose. Seed germinates very slowly. 15 in. .... .25 1.00

**Hemerocallis Peerless Blend.** A mixture of high merit. Seeds saved from ten botanical species, also from fine hybrid seedlings. This blend will give a wide color range of excellent Day Lilies. ....  
.... 100 seeds, 35c; 1000 seeds, \$2.50 ....

**Hesperis Matronalis.** (Sweet Rocket.) Sweet scented purple flowers in showy spikes. 40 in. 1/4 oz., 30c .25 1.00

**Matronalis Alba.** Sweet scented white flowers. .... 1/4 oz., 30c .25 1.00

**Heuchera X Sanguinea.** Graceful spikes of crimson flowers. .... .50

**Sanguinea Splendens.** Bright vermillion. .... 1/16 oz., \$1.30 .50

**Hybrida Grandiflora.** Mixed, 30 in. 1/16 oz., \$1.30 .50

Rock plants are followed by X, and the heights given are of the plants when in bloom.

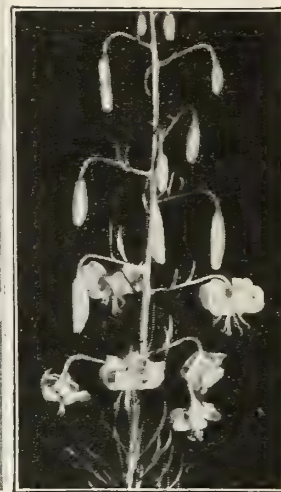




LATHYRUS Latifolius, White Pearl



LILIUM Regale



LILIUM Tenuifolium

## Seeds of Biennials and Hardy Perennials

	Trade	pkt.	Oz.	
<b>Hibiscus</b> Crimson Eye. White with red eye. 4 ft. ....	\$0.20			
Jumbo Red. Special selection made to improve color and size of Mallow Marvels Red. ....	1/4 oz., 50c	.25	\$1.80	
Mallow Marvels. Mixed. 4 ft. ....	1/4 oz., 40c	.25	1.40	
Pink. ....	1/4 oz., 40c	.25	1.40	
<b>Hollyhocks</b> Chater's. Double Separate Colors.				
Chamois (Buff yellow) .....	Newport Pink			
Deep Salmon Red .....	Salmon Rose			
Lilac Beauty .....	Scarlet (Blood Red)			
Maroon .....	White			
Deep Rose (Carmine rose) .....	Yellow.			
Each of above .....	1/4 oz., 50c	.30	1.50	
Special Double Black. ....	1/4 oz., 50c	.30		
Chater's Prize. Double mixed. ....	1/4 oz., 50c	.30	1.50	
<b>Imperator, Improved</b> ("Begonia Flowered" Crested Mixed). Collar of frilled and fringed edges. ....	1/4 oz., 55c	.30	1.80	
<b>Triumph.</b> Double waved and fringed flowers in delicate art shades. ....	1/4 oz., 50c	.30	1.50	
Vaughan's Special Mixture includes all Doubles, Imperator, Triumph and Allegheny ....	1/4 oz., 50c	.30	1.80	
Single mixed. ....		.25	80	
Allegheny. Mammoth-flowering. Semi-double flowers. Mixed. ....	1/4 oz., 25c	.15	75	
Everblooming Double Hybrids, mixed. If sown early will bloom first year. ....	1/4 oz., 40c	.20	1.40	
<b>Indian Spring.</b> It produces flowers of varying attractive bright rose and rosy carmine shades. Double and semi-double. Blooms from seed first year if sown early. ....	1/4 oz., 50c	.25	1.60	
<b>Hyacinthus</b> Candicans. 3 ft. Large snowdrop-like flowers in long racemes. ....	1/4 oz., 30c	.25	1.00	
<b>Incarvillea</b> Grandiflora. Brevipes. Large brilliant crimson rose flowers. 2 ft. ....	1/8 oz., \$1.00	.50		
Delavayi. Large Gloxinia-like flowers, rosy purple, very handsome, 24 in. ....		.50		
<b>Iris</b> Dichotoma, August or Vesper Iris. Fragrant flowers on tall branching sprays. In bloom from July to early September. Variable in color, cream to violet purple with markings of buff, orange, copper, brown, mahogany, and rose. Sow seed in early spring while soil is cool. Usually a fair proportion will bloom the first summer. ....	1/4 oz., 65c	.35	2.20	
<b>Giant Bearded.</b> These are large-flowered, named "bearded" or "German" Irises of our gardens. Our seed has been saved from a fine collection, and seedlings should show remarkable range of variable color richness, all the bright self hues, with pastel harmonies in fawn, lilac, bronze tawnies, rose tones, copper and wine shadings. ....	1/4 oz., \$1 90	.50	7 00	

<b>Isatis</b> Glauca, (Golden Gypsophila). Foliage silvery gray-green. Clouds of fine yellow flowers in July. 2 ft. ....	1/4 oz., 60c	\$0.35		
<b>Kenilworth Ivy</b> X (Linaria Cymbalaria). Pretty trailing variety. Pink. ....		.35		
<b>Lathyrus</b> Latifolius (Everlasting Pea). Mixed. ....	1/4 oz., 35c	.20	\$1.20	
Latifolius Pink Beauty. Large racemes of pleasing deep rose flowers. 6 ft. ....	1/4 oz., 30c	.20	1.00	
Red. Rosy purple flowers. 7 ft. ....	1/4 oz., 30c	.20	1.00	
White Pearl. Lovely sprays of large sweet pea-like flowers, each spray having 12 to 15 blooms. In flower all summer. 5 ft. ....	1/4 oz., 30c	.20	1.00	
<b>Lavandula</b> Vera. Munstead Strain. Large sweet-scented flowers in abundance. It flowers a month earlier than the common Lavender; height not exceeding 1 foot, an improved Vera. Sow in fall. ....	1/4 oz., \$1.00	.35		
<b>Liatris</b> Pycnostachya. Long spike of brilliant rose-purple flowers. Aug. to Oct. 4 ft. ....	1/4 oz., 75c	.30	2.80	
Scariosa Violet purple. 2 ft. ....	1/4 oz., \$1.00	.35		
September Glory. 6 ft. Spike covered with purple flowers. ....	1/4 oz., \$1.50	.50	5.50	
Spicata (Blazing Star). Purple rose, 20 in. ....	1/4 oz., 80c	.35		
<b>Linari</b> Cymbalaria, X Pink. 3 in. ....		.35		

## Lilies

### Culture on Lilies from seed sent free with order.

Concolor. Erect fiery scarlet with dark red spots. ....	1/4 oz., \$1.00	.50		
Formosanum Giant White. A fine variety easily raised from seed. Blooms in late summer when few hardy lilies are available. ....	1/4 oz. 1.00	.50	3.60	
Longiflorum Praecox (White Queen). Produces blooms of the well known Erabu type in from 12 to 15 months after sowing. Long trumpet flowers of clear white. 1/2 trade pkts., 60c; 1/2 oz. \$2.50; 1/4 oz. \$4.50		1.00		
Regale. The large, trumpet-shaped flowers are snowy white, with a pure yellow center, while the exterior of the petals is slightly tinged pink. It is a strong grower, attaining the height of three or four feet. The flowers are beautiful, possessing a delightful fragrance. 3 to 5 feet. ....	1/4 oz., 35c	.20	1.20	
<b>Tenuifolium</b> (Siberian Coral Lily). Flowers dazzling coral red flowers up and down the stem. 20 in. ....		.35		
<b>Linum</b> Perenne (Perennial Flax). Very pretty pale blue flowers on slender stems. 30 in. ....		.15	.60	
Flavum. Fine variety with transparent yellow flowers. 1 to 2 ft. ....	1/4 oz., 75c	.25		
Compactum Nanum. X Glowing golden yellow, dark green foliage. Everbloomer, 6 in. ....	1/16 oz., 70c	.35		

Rock plants are followed by X, and the heights given are of the plants when in bloom.





LUNARIA Biennis



LYCHNIS Chalcedonica



LUPINUS Polyphyllus Russell Mixture

## Seeds of Biennials and Hardy Perennials

### LINUM--Continued

Trade pkt. Oz.

Narbonense. Azure blue, flowers with white eye, graceful habit. 30 in.....	1/4 oz., 75c	\$0.35	\$2.80
Heavenly Blue. The flowers are twice as large as the common Linum perenne. The color is a luminous ultramarine blue. 1/8 oz., 65c; 1/4 oz., \$1.10	35	.....	
<b>Lobelia Cardinalis</b> (Cardinal Flower). Rich, fiery cardinal flowers. Needs moist shady location. 36 in.....	1/4 oz., \$1.00	35	3.50
<b>Lunaria Biennis</b> . (Honesty). Lilac purple flowers, silvery pod.....	1/4 oz., 35c	25	1.20
Biennis Alba. White flowers with silver pods. 1/4 oz., 35c	25	1.20	
Variegated Foliage. Light red flowers, pretty variegated foliage silver seed pods.....	1/4 oz., 35c	25	1.20
<b>Lupinus Polyphyllus</b> .			
Albus. Large, pure white spikes. 2 to 3 ft. 1/4 oz., 30c	20	1.00	
Carminous. Carmine shades.....	1/4 oz., 50c	25	1.60
Coeruleus Blue.....	1/4 oz., 40c	25	1.40
Roseus. Very pretty rose shades. 3 ft.....	1/4 oz., 60c	25	2.00
Downer's Hybrids. Perpetual flowering hybrids.....	1/4 oz., 60c	25	2.00
Russell. A marvelous selection of Perennial Lupins. Most unusual colors and color combinations. The flowerettes are much larger than the other Polyphyllus varieties.....	1/4 oz., 60c; 1/4 lb., \$6.00.	35	2.00
<b>Vaughan's Special Mixture</b> . This is a choice mixture of the best perennial Lupins.....	1/4 oz., 40c	25	1.40
Nitragin, for inoculating Lupin seed. Garden size 10c			
<b>Lychnis</b> . Alpina. X Rose 12 in.....		50	.....
Arkwrightii. Large flowers in brilliant colors, varying from orange-scarlet to soft-salmon pink. May. 2 to 3 ft.....	1/4 oz., 75c	35	2.40
Chalcedonica Salmon Queen. Beautiful salmon shade. 3 ft.....		35	.....
Chalcedonica. Vivid scarlet flowers. 36 in. 1/4 oz., 40c	25	1.40	
Haageana Hybrida. Mixed, extra choice, 18 in.....	1/4 oz., \$1.00	25	.....
Viscaria Splendens. Early, deep rose, 16 in. 1/4 oz., 50c	25	.....	
<b>Lythrum Roseum Superbum</b> . Rose-purple in spikes. A good border plant. 40 in.....	1/4 oz., 50c	25	1.80
Superbum, The Beacon. Excellent for moist or wet locations in the border. An English introduction of merit, produce 12 or more 3-foot upright spikes of clear rosy red which last a month or more, and are also good for cutting.....	1/4 oz., 75c	35	2.60

**Matricaria**. (Feverfew). Double Select White (Ball's Double White). This is the one and only fully double-flowering pure white strain of Feverfew from seed. It is 98% true to this description. 18 in. grown outside, 2 to 3 ft. when grown under glass. Trade pkt., 35c; 1/8 oz., \$1.00; 1/4 oz., \$1.75; oz., \$5.75.

**Matricaria Golden Ball**. Striking double golden yellow. Trade pkt. Oz. 8 in..... \$0.35

**Myosotis**. See Forget-Me-Not.

**Native Wild Flowers**. Mixed..... 1/4 oz., 60c 25

**Nepeta Mussini**. X Neat bushes of small lavender-like foliage covered with terminal spikes of lavender-blue flowers, both foliage and flowers aromatic. 1 ft..... 1/4 oz., 75c 25 \$2.25

**Nierembergia Hippomanica** (Coerulea). X The lovely lavender-blue flowers, heightened by a touch of yellow in the center, are most charming. Plants are compact, not over 5 or 6 inches tall. As an edging plant it is unexcelled, and it makes a splendid pot plant. It is a half hardy perennial which will winter over if given some protection..... 1/2 oz., \$1.00; 1/6 oz., \$1.75 50

**Coerulea, Purple Robe**. Similar to Nierembergia Hippomanica, except several shades deeper blue or violet-blue in color, from which it was selected..... 1/2 oz., \$1.65; 1/6 oz., \$3.00 50

**Oenothera**. Lamarkiana. Large yellow flowers on long spikes, 2 ft..... 15 50

**Macrocarpa** (Missouriensis). Large yellow flowers, fine trailer, June-Sept. 12 in..... 1/4 oz., \$1.00 25

**Youngie**. Large yellow bloom. 18 in. 1/4 oz., 60c 25 1.80

**Pentstemon**. Barbatus. Tall erect, branching. A showy scarlet perennial..... 35

**Digitalis**. White tinted violet. 36 in..... 35

**Grandiflorus**. Excellent, easily grown, long lasting cut flower. Lavender-blue. 3 ft..... 1/4 oz., \$1.00 30 3.60

**Perennial Varieties**. Mixed. 1/8 oz., 65c; 1/4 oz., \$1.10 35

**Phlox**. Divaricata. Flowers are of royal blue-lavender which varies a bit. Fragrant. 1 1/4 ft..... 50

**Decussata**. Perennial varieties mixed. Seed germinates slowly..... 1/4 oz., 60c 35 2.00

**Physalis Franchetti** (Chinese Lantern Plant). Large bright orange scarlet pods, useful for winter decorations..... 1/4 oz., 75c 25 2.50

Rock plants are followed by X, and the heights given are of the plants when in bloom





MATRICARIA Double Select White

Nudicaule or Iceland Poppies bloom from seed the first year if sown early.



POPPY Nudicaule The Emperor



PLATYCODON COERULEUM

## Seeds of Biennials and Hardy Perennials

### PHYSALIS Franchetti—Continued

Trade pkt. Oz.

Gigantea. The attractive orange-scarlet baloon seed pods are of the same color as of the well known Franchetti but are twice as large. . . ¼ oz., \$1.00 \$0.35 . . .

Physostegia Summer Snow. A grand glistening white, all summer display. Dignified spikes on foliage of the deepest green. A fine cutflower. . . ¼ oz., \$1.50 .50 \$5.00

### POPPY

Cut newly opened flowers either early in the morning or in the late evening and immediately (within five minutes of cutting) burn the ends of the stems at the gas range or electric range for a depth of two inches. Burn them well until the ends are charcoal and glow red when taken from the fire. Then put them in fresh water and your Poppies will last from three days to a week in the house, or you can put them in full sun and they will stand up two or three days, or until the petals drop, without wilting.

Papaver Nudicaule X (Iceland). Amurense "Yellow Wonder." Large flowers of buttercup-yellow are freely produced on stems 25 inches long. Foliage is glaucous, covered with short hairs. . . . . ½ oz., 50c; ¼ oz., 90c \$0.25 \$3.20

Coonara. Salmon, pink and rose shades. 1½ ft. . . ¼ oz., 65c .25 2.20

The Emperor. Large-flowered, orange, long-stemmed. . . ¼ oz., 70c .25 2.40

The Empress. Flower large, full, well formed, with broad overlapping petals, deeply fluted or wrinkled. The colors range through lovely shades of salmon-rose and creamy pink. . . ¼ oz., 80c .25 . . .

Gartford Giant Art Shades. This mixture is an excellent strain with exceptionally fine large flowers, beautifully fluted and soft textured, carried on extremely long heavy, wiry stems. The color range includes lovely pastel shades. . . . . ½ oz., 60c; ¼ oz., \$1.00 \$0.35 . . .

Kelmscott Strain. The best strain, strong wiry stems when well grown, 3 ft. long, large flowers in great variety of beautiful colors. . . . . ½ oz., 60c; ¼ oz., \$1.00 .35 . . .

White. . . . . ¼ oz., 70c .25 2.00

Sanford's Giant Hybrids. The flowers are immense, 2½ to 3 inches in diameter. The color balance is excellent. The stems longest we have seen. Extremely free-flowering. 2 ft. . . . . ¼ oz., 65c .25 2.20

### POPPY Nudicaule—Continued

Trade pkt. Oz.

Schinianum. Somewhat taller and with slightly larger flowers than the well-known Iceland Poppy. Very profuse in bloom all summer and fall. Transplants quite readily. Color of bloom delicate buff-orange. A fine true perennial Poppy. . . . . ½ oz., \$1.00; ¼ oz., \$1.75 \$0.35 . . .

Vaughan's Special Mixture of Iceland Poppies, containing every worthwhile strain of these beautiful and useful Poppies. . . . . ¼ oz., 80c .25 \$2.80

### ORIENTAL POPPY

The named varieties of Oriental Poppies do not come entirely true from seed.

Oriental (Oriental Poppy). Scarlet, 3 ft. . ¼ oz., 55c .25 2.00

Beauty of Livermere. Oxblood-red with dark blotch. . . . . .35 . . .

Brilliant. Brilliant fiery red. 40 in. . . . . .35 . . .

Mahoney. Maroon-crimson. 40 in. . . . . .35 . . .

Princess Victoria Louise. Flowers rather small, resembling a large tulip; perfect form; light orange-salmon. 40 in. . ½ oz., \$1.00; ¼ oz., \$1.80 .50 . . .

New Oriental Hybrids. From a collection of new named sorts. . . . . ¼ oz., \$1.00 .35 3.50

Vaughan's Special Mixture. . . . . ¼ oz., \$1.00 .35 3.50

Platycodon Grandiflorum. Blue, 28 in. . . ½ oz., 75c .35 . . .

Grandiflorum. Album. White, 28 in. . . ½ oz., 75c .35 . . .

Mariesii. Dark blue, dwarf. 16 in. . . . . ¼ oz., 85c .35 3.00

Alba. White and faint blue dwarf 16 in. . . . . .35 . . .

Polemonium Coeruleum. (Jacob's Ladder). Album. White. 30 in. . . . . .25 . . .

Coeruleum Blue. . . . . ¼ oz., 75c .25 . . .

Richardsoni. Dwarf, blue, early. 20 in. . . . . .50 . . .

Reptans. Flower sprays of china blue. Mounds of blossoms. A beauty, and adaptable to varied conditions. 12 in. . . . . .50 . . .

Polyanthus (See Primula Veris).

Potentilla Nepalensis X Miss Willmott. Bright carmine rose, 12 in. . . . . ¼ oz., 85c .35 . . .

Warrensi. A lovely plant for the sunny hardy border. Covered with large, pure yellow blossoms all summer. Suitable for cutting. 2 ft. ¼ oz., 85c .35 . . .

Rock plants are followed by X, and the heights given are of the plants when in bloom.





PRIMULA Veris Monarch Strain



STOKESIA Cyanea



SINGLE PYRETHRUM  
Robinson's Giant Hybrids Mixed

## Seeds of Biennials and Hardy Perennials

### PRIMULA VARIOUS SORTS

Acaulis Blue. The finest obtainable being regular and rich in color.....	Trade pkt. Oz.	
	\$1.00	....
Auricula. X Extra Large Flowered. Mixed, 6 in.....		
..... 1/8 oz., \$1.80; 1/4 oz., \$3.20	.75	....
Monarch Strain Mixed. The finest strain of Exhibition Auricula. Wonderful markings on perfectly formed flowers.....	1.00	....
..... 1/6 oz., \$1.75; 1/8 oz., \$3.20		
Bullesiana Hybrids. X Fine shades of yellow, orange, apricot and carmine. May-June. 18 in.....	.50	....
Bulleyana. Flowers yellow, bud terra-cotta.....	.50	....
Denticulata Grandiflora Hybrida X. Right handsome clustered blossoms in varying degrees of lilac, lavender, mauve and purple. 12 in.....	.50	....
Florindae. Fragrant, bright yellow pendent flowers. 3 to 4 ft.....	.50	....
Japonica Mixed. Bright flowers borne in whorls on stems 6 to 9 in. long.....	.50	....
..... 1/8 oz., \$1.00		
Officinalis, Cowslip, yellow. 10 in.....	.35	....
Rosea Grandiflora. X Rose-carmine, May-June. 8 in.....	.75	....
Vulgaris. X True. Yellow Primrose. 6 in.....	.50	....
..... 1/8 oz., \$1.00; 1/4 oz., \$1.75		

Write for special prices on larger amounts.

### PRIMULA VERIS

Veris Giant Crimson.....	1/8 oz., \$3.00; 1/16 oz., \$1.75	Trade pkt. Oz.	\$0.75	....
Lutea. Yellow.....	1/8 oz., \$1.00	.50	....	
Colossea Mixed. The large heads of flowers are borne on very long and stiff stalks quite above the foliage and have proven to be very valuable as cut flowers for early forcing. The flowers which are freely produced are extremely large, measuring more than 1 3/4 inch across. The range of colors is most remarkable, including many quite new shades of lilac, pink, copper as well as the darkest red. ....	1/4 oz., \$4.50; 1/8 oz., \$2.50	1.00	....	
Giant Bouquet. A magnificent development of this old garden favorite, the flowers being of exceptional size, often 2 inches across. They are produced in great numbers and display an immense variety of coloring from white to cream, yellow, scarlet, purple and crimson. Borne on strong stems they are excellent for cutting, as well as making a splendid show in the garden.....	1/16 oz., \$2.40	1.00	....	
Monarch Mixed. Is the result of years of selection to fix a strain free from objectionable loose headed plants. The flowers are produced from a stiff and strong central stem. Strong and vivid colors are in majority, but soft art shades occur in sufficient number to create a perfect blend of colors.....	1/8 oz., \$2.00; 1/4 oz., \$3.75	.75	\$14.00	....
Grandiflora. Mixed. Giant flowered finest mixed.....	1/4 oz., \$3.25; 1/8 oz., \$1.75	.75	....	
Giant Munstead strain. Flowers of largest size containing fine shades in yellow and white.....	1/16 oz., \$1.20; 1/8 oz., \$2.25	.75	....	
Giant Red Shades.....	1/8 oz., \$3.00; 1/16 oz., \$1.75	.75	....	

### PYRETHRUM (Painted Daisies)

Roseum. James Kelway. Deepscarlet varies.	$\frac{1}{4}$ oz., \$1.75	.50	....
Rose.....	$\frac{1}{4}$ oz., \$1.50; $\frac{1}{8}$ oz., 80c	.50	....
Grandiflorum Mixed. Large flowering.....	$\frac{1}{4}$ oz., \$1.40; $\frac{1}{8}$ oz., 80c	.50	5.00
Robinson's Giant Hybrids. Mixed.....	$\frac{1}{4}$ oz., \$1.75	.50	6.00
Robinson's Dark Crimson.....	$\frac{1}{4}$ oz., \$2.50	.50	8.00
Double Pink.....		1.00	....
Double Red.....		1.00	....
Double Sulphur yellow.....		1.00	....
Double White.....		1.00	....
Double Mixed. Extra choice.....	$\frac{1}{4}$ oz., \$2.50; $\frac{1}{8}$ oz., \$1.40	.50	7.50
Double Pyrethrum. Does not produce 100% double flowers—the percentage is better the second year it blooms.			
Cinerariaefolium. Persian Insect Powder Plant. White, for cutting. 2 ft.....	$\frac{1}{4}$ oz., 80c	.25	3.00



PRIMULA VERIS COLOSSEA MIXED

Rock plants are followed by X, and the heights given are of the plants when in bloom.









VIOLA Cornuta. In Flower All Summer

## Seeds of Biennials and Hardy Perennials

### Viola

In most cases the true Violas are a better bedding subject than many Pansies.

<b>Cornuta</b> Admiration. Very large circular dark blue flowers. 8 in. ....	1/8 oz., \$1.00; 1/4 oz., \$1.75	Trade pkt. \$0.50	Oz. \$5.50
Apricot, tinted orange at base. ....	1/8 oz., \$1.10	.50	....
Arkwright Ruby. Bright ruby crimson, with central markings; velvety; fragrant. ....	1/8 oz., \$1.50; 1/4 oz., \$2.60	.50	8.00
Avalanche. Giant pure white. ....	.50	....	....
Blue Beauty. Bright blue, early, free flowering. ....	.50	....	....
Blue Butterfly. Mid-blue shading to white. Resembles Pansy Beaconsfield. ....	1/4 oz., \$1.20	.50	4.00
Blue Perfection. Light blue, large flowered, 8 in. ....	1/8 oz., \$1.00; 1/4 oz., \$1.75	.50	5.50
Chantreyland. Masses of beautiful flowers in rich apricot shade, tinted orange. ....	1/4 oz., \$2.25	.50	....
Chinese Blue is a round-faced type of Viola. Chinese Blue, according to the Royal Horticultural Chart, is French Blue. It is the nearest substitute to the famous Viola Maggie Mott. ....	1/4 oz., \$2.60; 1/8 oz., \$1.50	.50	8.00
Ilona. Wine-red. ....	.35	....	....
Jersey Gem. Compact habit, deep violet-blue. 8 in. Free flowering. ....	1/8 oz., \$2.00	.50	....
King Henry. Rich violet blue lavender center with small yellow eye. ....	1/8 oz., \$1.00	.50	....
Lutea Splendens. Chrome yellow. 8 in. ....	1/4 oz., \$1.20	.50	4.00
Papilio. Blue and white. 6 in. ....	1/4 oz., \$1.25	.35	....
Yellow Gem. Compact habit, clear yellow flower. ....	1/4 oz., \$1.20	.35	....
White Perfection. White. Large flowered, 8 in. ....	1/4 oz., \$1.35	.35	4.80
<b>Vaughan's Special Mixture.</b> The bright shades of self colors of red, yellow, blue and apricot, combined with many shades which are blotched, undoubtedly make these Violas a supreme mixture. ....	1/4 oz., \$2.60; 1/8 oz., \$1.50	.50	8.00
Large Flowering Scotch. This strain will have large flowers. The color range is from white through all intermediate shades to purple all with two tone effect without blotches. ....	1/4 oz., \$3.00; 1/8 oz., \$1.75	.50	10.00

### Viola—Various Types

Blue Elf. 9 in. The upper petals are deep violet blue, lower petals light violet blue with gold eye and black lines radiating from center, small dark green foliage. ....	1/8 oz., \$1.40; 1/16 oz., 80c	Trade pkt. \$0.50	Oz. ....
Baby Delight. Early flowering, blooming in 70 days from seed. Makes compact bushy growth. The flower is lovely light blue, with a pleasing "face," about one inch in diameter. ....	1/4 oz., \$1.50	.35	\$5.00
Mrs. A. H. Scott. 4 in. Top petals white, lower violet purple very bright. An excellent rock plant. ....	1/4 oz., \$1.50	.35	5.00
Florariense. Beautiful lavender. ....	.50	....	....
Johnny Jump Up. Little Pansy faces of purple, blue and yellow. ....	1/8 oz., 80c; 1/4 oz., \$1.50	.35	....
Helen Mount. Average height about 8" with about a 12" spread of plant. Narrow, bushy foliage. Very free blooming. Two upper petals rich violet, two smaller lower petals are lavender and the lower petal or lift is canary yellow with black lines radiating from the eye. ....	1/8 oz., 75c	.35	4.40
Nigra (Black Imp). Interesting and attractive little pansy, pretty small black flowers. ....	1/8 oz., \$1.00	.50	....
Odorata Semperflorens Blue Sweet Violet. ....	.35	....	....

### Annual Wallflowers

Their deliciously scented flowers are a worthwhile early Spring crop when grown in a limited way. They like rich soil and a temperature of 45 to 50 degrees.

Double Annual "Early Wonder Mixed." This remarkable Wallflower comes into bloom within five months from sowing. These must be grown in 4-inch flats; they do not like too much root room. 2 ft. ....	1/4 oz., 60c; \$0.25	Trade pkt. \$2.00	Oz. ....
Annual Blood-Red. ....	.20	.80	....
Yellow, 20 in. ....	.20	.80	....

Yucca Hardy Varieties Mixed. ....	.25	....
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### ANNUAL FLOWER SEEDS FOR FALL SOWING

Antirrhinum	Dianthus (Annual pinks)
Calendula	Gilia Capitata
Calliopsis	Gypsophila
Candytuft	Hunnemannia
Centaurea Cyanus	Larkspur
Cosmos	Mignonette
Cynoglossum (Chinese Forget-me-not)	Poppy Shirley



# VAUGHAN'S PEONIES

## 3 to 5 Eye Divisions

### 5 of a Kind at the 10 Rate—30 of a Kind at the 100 Rate

Prices are F. O. B. Western Springs, Ill., packing charges to be added at cost.

The figures preceding the varieties are the rating given to them by the American Peony Society.

	Each	10	100
8.8 <b>Alsace Lorraine.</b> Creamy white, center tinted. Havana brown. Very beautiful form; late midseason. . . . .	\$0.60	\$4.50	\$40.00
9.0 <b>Baroness Schroeder.</b> Immense flowers of great substance with high chalice-shaped center. Opens a delicate flesh-white, sometimes a soft baby-pink, changing to creamy white. One of our best cut flower varieties and an excellent keeper in storage. . . . .	.75	6.50	60.00
9.3 <b>Festiva Maxima.</b> Popular large white, dotted carmine. Often 7 to 8 inches in diameter. Early. . . . .	.60	5.00	45.00
9.1 <b>Hansina Brand.</b> Giant flowers of deep flesh-pink with a salmon reflex. Wonderful show flower. . . . .	4.00	35.00	
7.9 <b>Mad. de Verneville.</b> Fragrant flowers, very full double, pure white, with center delicately tinted blush. Early. . . . .	.50	4.00	37.50
9.2 <b>Solange.</b> Compact large thick petals which closely overlap. Color a deep cream tinged amber and salmon pink. Late. . . . .	.90	7.50	
9.4 <b>Tourangelle.</b> Pearly-white overlaid with delicate shades of salmon. Late. . . . .	.75	6.00	50.00

## LIGHT AND DARK PINK AND ROSE

8.7 <b>Claire Dubois.</b> Clear, satiny pink, with glossy reflex. Late midseason. . . . .	.60	5.00	45.00
7.6 <b>Edulis Superba.</b> Usually blooms for Decoration Day. The flowers are a beautiful deep, vivid pink, with a silvery reflex, and are borne profusely on tall, strong stems. One of the best of all Peonies for cut flowers in its color and season; very fragrant. . . . .	.50	4.00	37.50
8.9 <b>Georgiana Shaylor.</b> Large, flat, pale rose pink with a few flecks of crimson. A strong grower. Midseason. . . . .	.60	5.00	40.00
9.1 <b>Martha Bullock.</b> Immense cupped shape flowers of bright old-rose pink that are often 9 to 12 inches in diameter, on tall, stout stems. Very beautiful; fragrant; late. Good cut-flower variety. . . . .	1.00	9.00	
9.2 <b>Mons. Jules Elie.</b> By many considered the most beautiful of all Peonies. Enormous full flowers, resembling a Chrysanthemum; color a glistening satiny pink, overlaid with a sheen of silver. Very fragrant; early. Good cold storage variety. . . . .	.80	7.00	65.00
9.1 <b>Myrtle Gentry.</b> Immense flowers of wonderful substance. Light pink changing to rosy white with tints of flesh and salmon; fragrant. Late midseason. . . . .	1.50	12.50	
8.7 <b>Reine Hortense (President Taft).</b> One of the finest Peonies. A vigorous, strong grower, a profuse bloomer and an excellent cut-flower variety. The flowers are extremely large and in color are a uniform light pink, center flecked crimson. Midseason. This variety and Sarah Bernhardt are two pink Peonies of highest quality for all purposes. . . . .	.75	6.00	50.00
9.0 <b>Sarah Bernhardt.</b> One of the best pink Peonies in the world. Tall, vigorous grower and prolific bloomer. The color is a dark rose-pink, edged lighter pink; center flecked crimson. Fine cut flower and storage variety; late midseason. . . . .	.75	6.00	55.00
9.3 <b>Walter Faxon.</b> Bright delicate rose pink flower. Free blooming; lasts well cut, Midseason. . . . .	.75	6.50	

## RED AND CRIMSON

8.4 <b>Felix Crousse.</b> Large globular blooms of rich, even brilliant, dazzling ruby-red; late midseason. Good cut flower and storage variety. . . . .	.60	5.50	47.50
8.2 <b>Grover Cleveland.</b> Large compact flowers of rich bright crimson on stiff stems. It has excellent foliage and is one of our most desirable reds. Late midseason. . . . .	.60	5.00	45.00
8.8 <b>Karl Rosefield.</b> Very large flower, globular, semi-rose type. Extremely vigorous grower; tall, early. . . . .	.65	5.50	45.00
9.0 <b>Longfellow.</b> Bright crimson. Semi-rose type; tall; late midseason. . . . .	1.00	9.00	

## ORIENTAL FLOWERED PEONIES

8.2 <b>Gold Mine.</b> Cup-shaped flowers of dark rose-pink with deep golden center. A strong grower and profuse bloomer. Midseason. . . . .	.50	4.00	37.50
8.6 <b>Mikado.</b> Guards velvety crimson, forming a cup enclosing crimson petaloids, edged and tipped gold. . . . .	.75	6.00	

## UN-NAMED PEONIES—Divided Roots of from 3 to 5 Eyes

	Each	10	100
Double Pink. . . . .	\$0.50	\$3.50	\$30.00
Double Red. . . . .	.50	4.00	35.00
Double White. . . . .	.50	3.50	30.00

Our complete collection of Peonies, including new varieties, will be listed with prices in our Fall Book For Florists, ready about September 1st.

# VAUGHAN'S IRISES

"S" refers to the three standard or upright curling petals.  
"F" refers to the three falls or drooping petals.

All prices are F.O.B. Western Springs, Ill., packing charges to be added at cost.

<b>Black Wings.</b> 38 in. Large flowers of intense midnight blue overlaid with a frosty black luster. . . . .	Each	10	25
<b>Buechly Giant.</b> 40 in. Clear lavender-blue bicolor of perfect form and sensational size. . . . .	\$0.30	\$2.25	\$4.50
<b>California Gold.</b> 36 in. A super novelty with magnificent, large flowers of dazzling, deep golden yellow. . . . .	.30	2.25	4.50
<b>Cherrio.</b> 40 in. Considered the most brilliant of all red Irises. "S" tan flushed rose; "F" rich glowing red. . . . .	.30	2.25	4.50
<b>China Maid.</b> 48 in. An intriguing blend of pink, golden copper and soft lilac. Large flowers of fine form. . . . .	.60	5.00	
<b>City of Lincoln.</b> 40 in. Magnificent bicolor. Standards of bright yellow, falls rich, velvety red; golden edged. . . . .	.40	3.00	6.25
<b>Claribel.</b> 40 in. A giant flowered, snow-white plicata, feather-stitched in soft blue. . . . .	.30	2.25	
<b>Copper Lustre.</b> 36 in. Huge flowers of a blend of glowing copper and gold with iridescent sheen. . . . .	.30	2.50	5.00
<b>Crystal Beauty.</b> 40 in. Large, perfectly shaped flowers of pure, snow-white on well-branched stalks. . . . .	.30	2.25	4.50
<b>Depute Nomblot.</b> 50 in. "S" coppery-red, flushed bronze; "F" rich claret crimson. A magnificent Iris. . . . .	.30	2.25	4.50
<b>E. B. Williamson.</b> 36 in. Rich, glowing coppery-red with a silky sheen. Very unusual and extra fine. . . . .	.30	2.50	5.00
<b>Elmohr.</b> 36 in. A hardy colossal seedling of Wm. Mohr. Color reddish mulberry with pinkish glow; of great brilliance. . . . .	.75	6.00	
<b>Elsa Sass.</b> 38 in. Ruffled lemon yellow, of good size and form. . . . .	.40	3.00	
<b>Exclusive.</b> 40 in. Perfect flowers of pure light blue overlaid with a silvery mist. Very beautiful. . . . .	.30	2.50	
<b>Frieda Mohr.</b> 42 in. A gigantic pink-toned Iris of perfect form and brilliant coloring. Fragrant. . . . .	.30	2.25	4.50
<b>Garden Magic.</b> 44 in. A late very dark velvety red—in great demand. . . . .	.60	5.00	
<b>Golden Majesty.</b> 42 in. A truly superb deep yellow Iris. Large blooms of thick substance do not fade. . . . .	.50	3.50	
<b>Golden Treasure.</b> 38 in. Exquisite creamy-yellow with golden heart. Huge flowers; very floriferous. . . . .	.30	2.50	
<b>Great Lakes.</b> 48 in. An exquisite blue. Ideally formed blooms with flaring falls and crisp petal texture. . . . .	.65	5.00	
<b>Gudrun.</b> 36 in. Enormous, well shaped flowers of lovely pure white, dusted with soft gold at the throat. . . . .	.30	2.25	4.50
<b>Happy Days.</b> 40 in. An immense clear yellow with flowers over 7 inches from top to bottom. . . . .	.30	2.25	4.50
<b>Indian Hills.</b> 37 in. A stunning Iris of rich wine purple. . . . .	.30	2.25	4.50
<b>Jean Cayeux.</b> 38 in. A beautiful blending of coffee brown with a golden glint. A masterpiece. . . . .	.30	2.25	4.50
<b>Junaluska.</b> 40 in. "S" rosy copper threaded with gold; "F" brilliant copper-red. Huge flowers of perfect form. . . . .	.30	2.50	
<b>Midwest Gem.</b> 36 in. Immense ruffled flowers of luminous apricot, flushed pink. Very fragrant. . . . .	.40	3.50	
<b>Ming Yellow.</b> 50 in. The perfect yellow Iris. Vigorous in growth, strong foliage and stout, well branched stems. . . . .	.60	5.00	
<b>Missouri.</b> 36 in. Clear vivid blue of sensational size. . . . .	.40	3.00	
<b>Morocco Rose.</b> 38 in. "S" lustrous pale pink; "F" deep rosalyne pink, long and flaring. A beautiful creation. . . . .	.60	5.00	
<b>Naranja.</b> 40 in. Large yellow with orange-yellow falls. . . . .	.30	2.25	4.50
<b>Ormohr.</b> 40 in. Extra-large blooms of soft gray lavender, veined violet with rosy glow. Hardy. Easy to grow. . . . .	.40	3.00	6.25
<b>Prairie Sunset.</b> 37 in. A gorgeous blend of peach, apricot, rose, copper and gold, like a prairie sunset. . . . .	.75	7.00	
<b>Pink Satin.</b> 42 in. Large, finely shaped flowers of a very delicate, yet glistening pink. . . . .	.30	2.50	
<b>Red Dominion.</b> 40 in. An outstanding variety of glowing ox-blood red. . . . .	.30	2.25	4.50
<b>Royal Coach.</b> 36 in. "S" chamois yellow, overlaid pink with faint cinnamon dottings; "F" semi-flaring, bright yellow, beautifully bordered and dotted brown. . . . .	.30	2.50	
<b>Sable.</b> 40 in. Almost perfect black with a silky sheen. Excellent form, hardness, and intense color make it "tops" in its color class. . . . .	.65	5.00	
<b>Snow Flurry.</b> 40 in. Enormous, beautifully ruffled flowers of pure icy white, very faintly flushed blue. . . . .	1.00	7.50	
<b>Snowking.</b> 40 in. Giant snow-white flowers. Vigorous. . . . .	.30	2.50	5.00
<b>The Red Douglas.</b> 40 in. Sensational, new vibrant red-purple of colossal size, gorgeously rich in color. The experts agree it's one of the finest of all Irises. . . . .	.75	6.00	
<b>Tiffany.</b> 36 in. Plicata of yellow gaily stitched in burnished rosy bronze. Hardy and free blooming. . . . .	.30	2.50	
<b>Wabash.</b> 39 in. Dykes Medal 1940. "S" snowy white; "F" deep hyacinth-violet. The experts agree it is one of the finest Irises ever introduced. . . . .	.50	3.50	
<b>Wm Mohr.</b> 26 in. Basic color is pale lilac with "S" flushed darker. Beautifully veined manganese-violet. One of the most remarkable Iris ever raised. . . . .	.30	2.25	4.50

## FALL BLOOMING IRIS

These varieties bloom in the Spring with the Early flowering varieties and have a habit of blooming again in the Autumn.

	Each	10	25
<b>Autumn King.</b> 30 in. A large blue-purple bicolor. . . . .	\$0.25	\$2.00	\$3.75
<b>Eleanor Roosevelt.</b> 28 in. Deep velvety purple self. . . . .	.30	2.25	4.50

## SIBERIAN IRIS

The most hardy and elegant of all small flowered Irises. They grow on tall stems, have graceful, grass-like foliage, and are excellent for cutting, good established clumps having from 15 to 30 flower stalks.

	Each	10	25
<b>Emperor.</b> Large flowers of deep violet-blue. . . . .	\$0.25	\$2.00	\$3.75
<b>Perry's Blue.</b> A tall, beautiful variety, excellent for cutting. Large, well formed flowers of sky-blue. . . . .	.25	2.00	3.75

We have a large collection of Hardy Irises, including the best of newer varieties. Write for complete price list, will be ready in early July.



# Bulbs for Mid-Summer and Early Fall

## Anemones

Ready in September

One of the most showy flowers, good for cut flowers. They thrive in any soil except a very heavy clay. Set 10 inches apart, about 1/2 inch deep. Sunny location, plenty of moisture.

	Per 100	Per 1,000
DeCaen, Single Poppy Type, mixed, No. 1	\$4.00	\$32.50
DeCaen, Blue Poppy, bright blue, No. 1	5.00	40.00
DeCaen, His Excellency, bright scarlet, No. 1	5.00	40.00
DeCaen, The Bride, white, No. 1	5.00	40.00
DeCaen, Sylphide, pink, No. 1	5.00	40.00

**Anemone St. Brigid Irish Champions.** The largest flowered strain of Anemones ever offered in the United States. Large, brilliant flowers in a wide variety of colors, 90% full double.

	Per 100	Per 1,000
1/2-5/8 in. Bulbs	\$3.00	\$25.00
5/8-3/4 in. Bulbs	5.00	40.00

## White Calla

(Aethiopica) Ready in September

The CREAM of the West Coast Stock

Our stock is thoroughly cured in the ground and dried carefully before they are packed. This means later delivery but better results can be obtained from such bulbs.

We caution forcers of Callas to water this stock sparingly after planting because Calla bulbs store up considerable moisture.

Size	Per 100	Per 1,000
1 1/4-1 1/2 inches	\$11.50	\$ 95.00
1 1/2-1 3/4 inches	20.00	180.00
1 3/4 inches and up	27.00	250.00
2-2 1/2 inches	35.00	330.00

## Yellow Callas

(Elliotiana) Ready in November

Yellow callas are very attractive as pot plants. A few pots of this golden yellow flower placed in a display window draw much attention and sales. Grow a hundred and see how quickly they sell.

Size	Doz.	Per 100	Per 1,000
2-2 1/2 inch	\$2.50	\$17.50	\$170.00
2 1/2-3 inch	4.50	30.00	280.00
3-3 1/2 inch and up	6.00	44.00	425.00

## Freesias—California Grown

Ready in August

Freesia flowers still have brought good prices in all markets. Why not plant a few bulbs for your own trade? Start bulbs in flats carried in cold frames until killing frosts come, then bring them into the greenhouse and force for early flowers.

### ELDER'S GIANT WHITE (Patented)

Much demand for the flowers on all markets because of the size and strong stems.

Size	Per 100	Per 1,000
1/2 to 5/8 in.	\$3.00	\$24.00
5/8 to 3/4 in.	4.50	35.00

### GOLDEN DAFFODIL

The yellow you must have with your planting of the White varieties. Color, clear, light yellow and orange blotch. Large flowers on strong, stiff stem. 1/2 to 5/8 in., per 100, \$2.00; per 1,000, \$14.00; 5/8 to 3/4 in., per 100, \$3.00; per 1,000, \$22.50.

### KOKOMO

A very attractive lavender blue. Large open flowers and good long stems. A strong grower with plenty of laterals. We believe the finest lavender to be put on the market.

Size	Per 100	Per 1,000
1/2 to 5/8 in.	\$2.50	\$15.00
5/8 to 3/4 in.	3.00	22.50

FREESIAS—Continued

### KNIFE'S YELLOW

A yellow freesia of unusual sturdy growth, tall straight stems. Flowers large and wide open. Great lasting qualities. Very prolific producer with several laterals, making it a valuable cut flower.

Size	Per 100	Per 1,000
1/2 to 5/8 in.	\$2.50	\$15.00
5/8 to 3/4 in.	3.00	22.50

### PURITY—TRUE STRAIN

Size	Per 100	Per 1,000
1/2 to 5/8 in.	\$2.00	\$14.00
5/8 to 3/4 in.	3.00	22.50

### SUNSET

An entirely new color in Freesias being a flame orange.

Size	Per 100	Per 1,000
1/2 to 5/8 in.	\$2.00	\$14.00

### RAINBOW MIXED

Size	Per 100	Per 1,000
1/2-5/8 in.	\$2.00	\$14.00
5/8-3/4 in.	3.00	22.50

## Freesia Tecolote Hybrids

Flowers immense size, wide open and delightfully fragrant. Plants of unusual strength and vigor. Tall strong stems.

### TALISMAN (Pat. No. 555)

Bright orange-pink with rich cream throat. Early.

	Per 100	Per 1,000
1/2-5/8 in.	\$3.50	\$25.00
5/8-3/4 in.	4.50	35.00

### TECOLOTE IN COLORS

White, Rose, Purple and Red.

Size	Per 100	Per 1,000
1/2-5/8 in.	\$3.50	\$25.00
5/8-3/4 in.	4.50	35.00

### IRIS WEDGEWOOD

Ready in September

	Per 1,000	Per 1,000
	Holland Grown	American Grown
8-9 ctms.	\$18.00	\$30.00
9-10 ctms.	27.50	45.00

These sizes of Iris bulbs should be grown more slowly at about 45° to 50° F until about two weeks before blooming time when the temperature may be raised to 60° F days and 55° F nights. Plant Iris in deep flats so the roots have plenty of room, and the plants require good light conditions. Foliage may be trimmed as necessary to allow more light and decrease evaporation and drying out.

### LILIUM CANDIDUM

American Grown—Ready in late August—Early September

Our bulbs are plump, heavy and healthy of the thick broad petaled Paris type.

	Per 100	Per 1,000
18-20 ctms.	\$20.00	\$180.00
20-22 ctms.	25.00	225.00
22-24 ctms.	35.00	325.00
24-26 ctms.	50.00	390.00

### RANUNCULUS

Ready in September

The important thing is to grow a good strain, and Vaughan's exclusive Victoria Hybrids have no rivals in abundant bloom, percentage of doubles, strong stems, and size of flowers. The color range embraces pink, yellow, orange, brilliant scarlet, vivid apricot and innumerable tints of these colors. Culture on request.

	Per 100	Per 1,000
Victoria Hybrids Mixed Tops	\$4.50	\$40.00
Mixed First Size	3.75	32.50
Mixed Second Size	2.50	20.00



# RUBBER HOSE, COUPLERS, NOZZLES, ETC.

## "AMEPCO"

### GUARANTEED PLASTIC AMBER HOSE

Clear amber greenhouse hose, kink proof, crack proof, light as a feather, guaranteed for 5 years, equipped with precision machined fittings. A miracle of modern chemistry, a guaranteed plastic, originally designed and used for oil and fuel lines in war plants and battleships. The weather elements will have no effect and will not deteriorate this hose. Weighs only 25% of ordinary rubber hose making it very easy to carry where necessary.  $\frac{3}{4}$  inch amber, price, 50 ft. length \$17.50 each, coupled.

### VAUGHAN'S $\frac{3}{4}$ INCH WATER

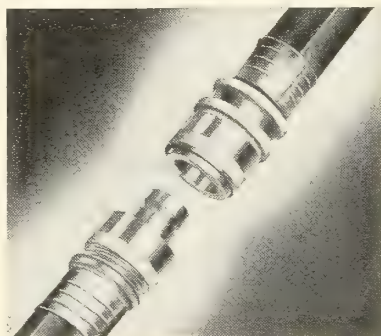
**HOSE.** This is the finest grade of hose obtainable at this time. This is a two braid hose and is suitable for garden and greenhouse use. Price 24c per foot. Couplings, 35c per set extra. This hose can be furnished in any length.  $\frac{5}{8}$  in. Single Braid Hose. Price, per 50 ft. length, \$6.25. Price,  $\frac{3}{4}$  or  $\frac{1}{2}$ -inch couplings, 35c per set.



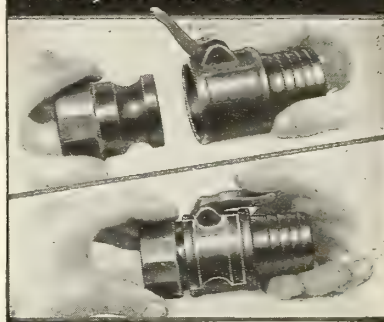
### THE NEW CRESCENT

#### HOSNAP COUPLING.

Screwing of couplings and twisting of hose eliminated. This coupling operates by merely pushing in. It locks quickly. Can be removed simply by pushing down collar. Made of brass. Price each, \$1.00; doz., \$10.20; 6 doz. lots, doz., \$9.60.



**JUST PRESS THE LEVER—**  
Instant, tight connection—  
a great time-saver!



**BRASS CLINCHER HOSE COUPLING.** Tight grip, will not leak, easily applied. Made with dark green plastic body. The heavily plated fingers grip the hose tightly and make a leak-proof connection. The couplings have a large octagon shaped swivel. They are easily attached. Each, 40c; doz., \$3.60.



#### Brass Clincher

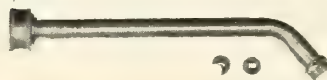
#### Hose Mender

Price each, 15c;  
doz., \$1.35.



#### JUSTRITE BRASS HOSE NOZZLE

For lawn and garden, can be changed from fine spray to stream.  $\frac{3}{4}$  inch, each, 85c; doz., \$7.20.



**Paradise Syringing Nozzle.** 10-inch, each, \$3.20; 18-inch, each, \$4.20; extra tips, each, 35c.



## Vaughan's High-Grade Fertilizers

The highest grade only. Guaranteed analysis. Prices net cash.

**NOTE—These ceiling prices are f. o. b. Chicago**  
**ACTIVO (Formerly Bacto).** Make your own fertilizer easy, quick—often in as little as three weeks. Odorless! Organic! Just sprinkle Activo on kitchen waste, leaves, garden rubbish, sewage sludge, etc. Sprinkle in outdoor toilets, reduces odors, makes easily handled ash of waste. No. 2 size \$1.00; treats 450 lbs. compost. Carton of 6, \$4.00; dozen, \$7.20; No. 7 size, \$2.00; treats up to 1800 lbs. Carton of 6, \$7.80; doz., \$15.00; No. 25 size, \$4.50; three for \$10.50; treats up to 3 tons compost.

**ADCO ARTIFICIAL STABLE MANURE.**  $7\frac{1}{2}$  lbs., 95c; doz., \$9.90; 25-lb. bags, \$2.65; 150-lb. bags, each, \$11.75.

**ALUMINUM SULPHATE.** For creating acid condition in the soil. 25 lbs., \$1.25; 50 lbs., \$1.95; 100 lbs., \$2.75; 200 lbs., \$4.95.

**BONE AND BLOOD.** For garden crops use 500 lbs. per acre. 50 lbs., \$3.50; 100 lbs., \$6.25; 500 lbs., \$30.50; 1000 lbs., \$60.00.

**BONE MEAL, Regular or Standard Grade.** 5 lb. pkg. doz., \$6.00; 25 lbs., \$1.65; 50 lbs., \$2.85; 100 lbs., \$4.95; 500 lbs., \$22.95.

**CATTLE MANURE, Shredded.** High grade natural fertilizer. 100 lbs., \$2.60; 500 lbs., \$12.25; 1,000 lbs., \$23.50; 2,000 lbs., \$46.00.

**CHARCOAL.** Put up in 50 lb. bags. We can supply all sizes from powder to lump. Per bag, \$2.75. Write for price on larger quantities.

**COMPO: NEW IMPROVED FAST ACTING COMPOST DEVELOPER.**

Turns garden refuse and leaves, grass cuttings, weeds and vegetable matter into rich organic odorless manure.  $7\frac{1}{2}$  lb. size makes 375 lbs. of manure (a compost heap measuring 3 ft. x 3 ft. x 2 ft. high). Retail at \$1.10. Packed ten to carton, price per carton, \$7.50; 25 lb. size retails at \$2.50 (makes 1250 lbs. of manure); carton of 3 for \$5.00; 100 lb. size, each retails \$8.50 (makes  $2\frac{1}{2}$  tons of manure), 3 for \$17.00.

**DRICONURE.** A good fertilizer with a peat moss base impregnated with a high grade manure. 50 lb. bag, \$2.00; 5 bags for \$9.75; 10 bags for \$18.50.

**ELECTRA. Analysis 4-9-3.** A high organic plant food for feeding, forcing and finishing. It should be used in potting soil as a top-dressing. Helps bring plants to highest perfection. 25 lbs., \$2.75; 50 lbs., \$4.95; 100 lbs., \$7.75.

Write us for prices on larger quantities.

**FULTON'S PLANTABBS.** Odorless plant food in tablet form; supply a complete balanced plant food including Vitamin B-1. Put up in boxes. Ceiling prices, 10c size, doz., 75c; 25c size, doz., \$2.00; 50c size, doz., \$4.00; \$1.00 size, doz., \$8.00; \$3.50 size, each, \$2.50. Special discount of 5% on orders totaling \$6.00.

**GRANULATED PEAT MOSS (Imported).** Per large bale, \$4.25; 5 bales for \$20.00. Write for quantity lot prices. Garden size bales, each, \$2.10; 10 bales for \$19.75.

**HORN SHAVINGS.** Synthetic quick-acting and lasting. 25 lbs., \$3.50; 50 lbs., \$6.00; 100 lbs., \$11.50; 500 lbs., \$37.50. Write for prices on larger quantities.

**HORN SHAVINGS.** The regular old type shavings. 25 lbs., \$3.50; 50 lbs., \$6.00; 100 lbs., \$11.50.



**HYPONEX.** Contains all of the known major and minor elements of plant food with vitamin B1 added. Analysis 7% Nit., 6% Phos., 19% Pot. Ceiling prices, 1 oz. packet makes 6 gals. Retail at 10c, price per carton of 72 pkts. \$4.80; 3 oz., retails for 25c. Doz., \$2.00; 1 lb. retails for \$1.00. Doz., \$8.00; 10 lbs., \$5.34; 25 lbs., \$10.00; 50 lbs., \$16.67; 100 lbs., \$26.67.

**HY-GRO PLANT FOOD.** Famous 13-20-13 soluble formula and starter solution. Produces healthier growth and heavier yields—speeds earlier growth of seeds—checks wilting of transplants. Contains growths, hormones, minerals and other plant nutrients—provides all the food necessary for healthy plant growth. This formula was not obtainable during the war. 3 oz. glass jars retails at 25c, packed 24 to carton, price per carton \$3.60; 20 oz. jar retails at \$1.00, packed 2 to carton, price per carton \$7.20; 10 lb. container each \$4.00; 25 lbs., \$6.50; 50 lbs., \$12.00; 100 lb. drum each, \$22.50.

**LOMA ANALYSES 5-10-5.** A scientifically prepared plant food for flowers, vegetables and potted plants. Prices, 1-lb., carton, 24 in case, per case, \$1.44; 5-lb. carton, 12 in case, per case, \$3.60; 10-lb. bags, 10 in a sack, per sack, \$5.70; 25-lb. bags, 4 in a sack, per sack, \$4.20; 50-lb. bags, 2 in a sack, per sack, \$3.54; 100-lb. bag, \$2.90; 500 lbs., \$14.50; 1000 lbs., \$29.00; 2000 lbs., \$58.00. 300 lbs. or more delivered free to your railroad station within 500 miles of Chicago.

**SHEEP MANURE. Vaughan's Pulverized.** Pure, dry, finely ground. 25 lbs., 90c; 50 lbs., \$1.40; 100 lbs., \$2.50; 500 lbs., \$12.00; 1,000 lbs., \$23.50; 2,000 lbs., \$46.00.

**STIMULANT TABLETS.** A very effective plant food for house plants. Ceiling prices, put up 48 pkgs., to a display case, retails for \$4.80; Price, \$2.88. 25c size put up in counter display case, of 10 pkts., price, \$1.50; 75c size, doz., \$5.40.

**SUPERPHOSPHATE.** 20% available. Ceiling prices, 100 lbs., \$2.30; 500 lbs., \$10.00; 1,000 lbs., \$19.25.

**PLANT PROD. (15-30-15).** A water soluble fertilizer. Is beneficial to all types plants, ornamental or vegetable. The economical and safe way to feed plants. Price 10 lbs., \$4.00; 25 lbs., \$8.00; 50 lbs., \$12.00; 100 lbs., \$21.00.

**UNIVERSAL ACID PLANT FOOD.** A specialty plant food for the more difficult acid loving plants. It creates an organic acid soil condition, is not toxic to roots. Promotes root growth and plant growth which permits growing, training and flowering with safety. Price per 100 lb. bag \$7.75; 5 bag lots \$7.25 per bag.

## KEM LIQUID PLANT FOOD

Best and Safest Summer Food for Plants and Lawns

A complete balanced ration for plants, a nutrient solution containing all essential elements, Nitrogen, Phosphate, Potash, including Calcium, Boron, Sulphur, etc., merely dilute Kem solution with hydrant water. Ceiling prices, house plant size retails for 25c; 2 doz., to case, \$4.00; 50c size, 12 to case, \$4.00; \$1.00 size, 4 to case, \$3.00.





## Sodium Selenate Makes Plants Poison Insects

Sodium selenate, which Dr. W. E. Blauvelt of Cornell University told a florists' meeting at Cornell University, "is out of the experimental stage," when applied to the soil in a greenhouse bench is absorbed by the plants, and makes them poisonous to insects.

Over 18,000 pounds have been used in 1946, sufficient to treat over a hundred fifty million square feet of greenhouse bench area. One treatment of the soil is effective for three to six months.

Not all insects are affected. It works best with soft plants like chrysanthemums, carnations, gladioli, cyclamens, saintpaulias, etc., and has not been found entirely effective on woody plants. It kills red spider and aphid on chrysanthemums and carnations, cyclamen mites on chrysanthemums and saintpaulias, foliar nematodes and midge on chrysanthemums.

Complete instructions for use are sent with the material and must be followed closely.

**PURE SODIUM SELENATE** is a granular powder, very concentrated: One pound treats 1,800 square feet of bench area. This material is completely water-soluble. 100 grams (makes 1 gallon) prepaid \$1.50; per lb., \$4.00; 25 lbs. \$87.50; 100 lbs., \$300.00. By express, charges collect.

**P-40 IS TWO PER CENT SODIUM SELENATE** and ninety-eight per cent carrier (superphosphate in the present material). It is a dilute material. Three pounds treat only 100 square feet of bench area. 3 lbs., \$1.50 prepaid; 25 lbs., \$4.25; 50 lbs., \$8.00; 100 lbs., \$15.00; by express, charges collect, 2,000 lbs., \$250.00.

## All Forms of D. D. T.

**D. D. T. 50% WETTABLE DUST.** For diluting in water for spraying, or mixing with talc to prepare dust of desired strength. One pound in 100 gallons of water makes effective garden spray leaving a heavy residual deposit on plants. Three pounds to 100 gallons of water makes effective and safe spray for cattle, horses, hogs and other farm animals, or residual spray for walls of barns, stables, hog or poultry houses and milk sheds. 8 oz., retails 60c; per doz., \$4.80; 1 lb. retails \$1.00, per doz., \$8.00; 4 lb. bag, \$2.10; 48 lbs., \$21.00.

**D. D. T. 30% LIQUID SPRAY.** D. D. T. in emulsion form has given results on some insects superior to those from wettable powders. This is safe to use on garden and greenhouse plants, also for spraying barns and other buildings to control flies. Gal., \$6.50.

**D. D. T. HOUSEHOLD SPRAY.** An oil spray for lasting control of pests. For spraying or brushing on screens and porch walls, and general household use according to directions. Kills bedbugs, flies, mosquitoes, moths, ants, silverfish and many others. Do not use on plants or animals. Pints per doz., \$3.60; qts. per doz., \$4.80; gals. per carton of 4-1 gals., \$4.80.

**D. D. T. 5% DUST.** A ready-mixed garden dust of D. D. T. combined with a fine, light-weight filler, safe to use on all plants in gardens and greenhouses, also on livestock, dogs, pet animals (except cats) and poultry. Its extra strength assures maximum pest control. 1 lb. retails, 35c; per doz., \$2.80; per carton of 24, \$5.40; 25 lbs., \$3.25; 50 lbs., \$6.00; 5 lb. pkg., retails, \$1.25; per doz., \$10.00.

**D. D. T. AEROSOL BOMB.** When released from the bomb in five to seven seconds, non-poisonous Freon gas impregnated with 3% D. D. T. and 2% pyrethrum, both deadly to insects, completely fills a room, killing insect life and leaving a deadly deposit which will protect from pests for weeks. Moths, mosquitoes, roaches, flies and other household pests are exterminated. Safe to use and harmless to clothing and furniture. One bomb will last the average household months. Aerosol bomb, contents 16 oz., retails, \$3.00; six for \$13.50; per carton of 12, \$24.00.



## D. D. T.—Yamtox

Use of DDT alone seems to have a tendency to increase the infestation of other insects that it does not control. This may be due to killing off desirable parasites, or freeing them from competition. DDT Yamtox contains the full complement of rotenone necessary for the control of red spiders and other mites, thrips and aphids. The incorporation of 5% DDT in it widens its range of use to the satisfactory control of tarnished plant bug and leaf rollers. Where the plants are easily damaged, or where it is desired to spray open flowers of mums, or to dip the entire plant, as in the case of cyclamen mite, Yamtox DDT sure fits the bill. Price per gallon, \$12.00; case of 6—1 gallon cans; \$11.00 per gallon.

## YAMTOX WITH BHC

Adding highly purified Benzene Hexachloride with rotenone is our Yamtox produces a spray material safe to use on most plants. This new combination will cover a wider range of insects than a rotenone spray and gives a fumigation effect from the gamma isomer of the BHC it contains. Control of Aphids and Thrips is more readily obtained with BHC than any other material available. Price \$18.00 per gallon. In ordering specify Yamtox with BHC or Yamtox with DDT.

## NOW THEY CAN BE SHIPPED

## Aerosol Bombs TEPP

Improvement on HETP are available in case lots, of six bombs, each of which will cover 400,000 cubic feet. Refillable shells and shipping cases returnable for credit or exchange.

Each, \$6.50, per case of 6 bombs...\$39.00  
Deposit per shell at \$3.50 each... 21.00  
Deposit for wood shipping case... 4.00

Total.....\$64.00

**Standard Speeding Applicator.**

Each.....\$ 6.50

**Extra Long Speeding Applicator.**

Each..... 7.50

**Mine Safety Industrial Gas Mask.** Each.....\$25.00

**Extra GMC-1 Canisters.** Each..... 3.00

HETP bombs are also on hand for pickup, cannot be shipped.



## AZOFUME 90 (AZOBENZENE)

The new fumigant for controlling Red Spiders on roses. Price per 5 lb. package, \$14.75; 10 lbs., \$26.00; 25 lbs., \$56.25; 50 lbs., \$87.50; 100 lbs., \$160.00.

**AZOFUME 100.** (Technical grade 100% Azobenzene). For use in electric or kerosene lamps generally used for fumigating with naphthalene compounds. Use in exactly the same manner as Fulex and other type vapors. Price, 5 lbs., \$13.00; 10 lbs., \$22.85; 25 lbs., \$48.75; 50 lbs., \$81.25; 100 lbs., \$130.00.

**AZOFUME 10 (Dusting Form).** We consider this dust as an ideal addition to the Azobenzene family. Where small pockets of spider occur in greenhouses on carnation and roses, dusting with Azofume 10 fills in. Also recommended for outside use on phlox, roses and evergreens. Price 4 lb. pkg., \$2.00; 50 lbs., \$17.50.

**AZOFUME 45 CANDLES.** Now you can fumigate easily and simply with Azofume in candle form. Merely light them, and after the flame has spread a few seconds, the flame is extinguished and the candle smolders for about an hour. Each candle treats approximately 6000 cubic feet of greenhouse space; about one pound of candles to 25,000 cubic feet. No need to split the treatment into two or more applications. AZOFUME 45 is effective on red spiders, cyclamen mite and most other types of mites found in greenhouses on ROSES, CARNATIONS, MUMS, CYCLAMENS, CALLAS, HYDRANGEAS, GARDENIAS, CAMELLIAS, GERANIUMS, IVIES, KALANCHOES, AGERATUMS, CINERARIAS, PRIMULAS, COLEUS and many other plants, 24 Candles to a carton for \$10.80; 96 Candles to a case for \$43.20.

**AZOFUME 45 CANDLES WITH BHC.** To extend use over a greater range of insects, especially Thrips and Aphids, we have added 5% Benzene Hexa Chloride Gamma Isomer at no extra charge. Price same as regular Azofume Candles. Specify with or without BHC.

**STIM ROOT**  
An improved rooting compound containing several different hormone-like chemicals in sufficient quantities to produce root stimulation in the hard type of cuttings, and still is safe to use on the softer, more easily injured plants. Also contains a fungicide that checks fungi that rot cuttings. A small amount of dust will coat each cutting evenly, making a pound go further. ¼ oz. retails at 50c; case of 24, \$7.20; 2 oz. retails at \$1.00; case of 12, \$7.20; 1 lb., \$5.00.

## SEED-LESS-SET (New Concentrate) HORMONE SPRAY

A new scientific development insures "set" of first tomato flowers which usually fall off during early spring; eliminates seeds; causes weeks earlier ripening; increases yield and size of fruit; pollinates self-sterile plants. ¼ oz. makes 1 gal. each, \$1.00; per doz., \$7.20. 2 oz. makes 4 gal. each, \$2.50; per doz., \$18.00. 8 oz. makes 16 gals. each, \$7.50; six for \$30.00. 20 oz. makes 40 gals. each, \$12.50.

## ROOTONE

PATENTS PENDING

treat 3,000 cuttings, \$1.00; doz., \$8.00; 1-lb. jar will treat up to 30,000 cuttings, \$5.00. Write for leaflet, all postpaid.



**Rootone No. 10.** For slow to root evergreen cuttings. 2 oz., each, \$2.00; 1 lb., each, \$10.00.

**Transplantone** For treatment of transplants of all kinds it contains the root forming hormones, vitamin B-1 and other members of the vitamin B complex, which are important in plant growth. ½-oz. pkt., each, 25c; doz., \$2.00; 3 oz., \$1.00; doz., \$8.00; 1 lb., \$4.00.

**Fruitone.** The hormone spray for stopping premature harvest drop of apples and other fruits. Also reduces drop of flowers and leaves. 2/5 oz. pkt. dozen, \$2.00, retails at 25c per pkt.; 2 oz. (makes 25 gal. spray); \$1.00; doz., \$8.00; ½ lb., \$1.50.

Write for price on larger quantities.

**Hormodin Powder** Combination package. No. 1, 2, 3, in one carton. Price 75c; doz., \$6.00.

No. 1 Powder 1½-oz. tin, each, 50c; 1b., \$3.00.

No. 2 Powder 1½-oz. tin, each, 75c; 1lb., \$4.50.

No. 3 Powder 1-oz. tin, each, \$1.00; ½ lb., \$4.50.



# Other Insecticides and Fungicides

Add Postage According to Weight and Zone (See Order Blank).

In addition to the materials listed below we can supply any preparation on the market at the right price for your own use, or for resale. If you do not find the brand you wish listed, ask us for a price on the quantity desired. Attractive profits are earned by selling small-package insecticides at retail, for which sales most flower buyers are good prospects.

**ACME EMO-NIK.** A combination spray of nicotine and summer oil emulsion for aphids scale, thrip, mealy bug, etc. 4½ oz., 37c; doz., \$2.80; pint, 70c; doz., \$5.60; gal., \$2.75.

**ACME KOPPER QUEEN.** A strong liquid copper spray for control of mildew, leaf rot and black spot on roses, flowers and plants. 8 oz., 35c; doz., \$2.80; qt., 95c; gal., \$2.25.

**ARASAN.** 4 lbs., \$5.16; 25 lbs., \$30.00; 100 lbs., \$115.00.

**ARSENATE OF LEAD.** The standard spray or dust for quick, dependable control of practically all leaf-eating (not sucking) insects. 1-lb. carton, 45c; doz., \$3.90; case of 24, \$7.56; 4-lb. bag, \$1.50; 48 lbs., \$12.50.

**BORDEAUX MIXTURE.** (Dry.) The best fungicide for curing and preventing black rot, mildew, blight, leaf curl, scab or other fungoid diseases on fruits and plants. One pound will make 5 gallons liquid. Lb., 40c; doz., \$3.20; 4 lbs., 95c; case of 24 lbs., \$4.50.

**CARBON DISULPHIDE.** For ants and cut worms. 1 lb., 55c; doz., \$4.80.

**COPPER SULPHATE.** Crystals. 10 lbs., \$2.25; 25 lbs., \$4.50; 100 lbs., \$13.00.

**CORROSIVE SUBLIMATE.** Mercuric Chloride. Price, 1 lb., \$2.75; 5 lbs., \$12.25. (1 lb. to 96 gals. water).

**CUPRINOL.** A special grade for dipping of flats and stakes. 5 gal. drum, \$11.75; 50 gal. drum, \$110.00.

**CUPRINOL WOOD PRESERVATIVE.** Stops rot around the greenhouse. One gallon covers and preserves approximately 400 sq. ft. of wood. Per gallon, \$3.45; 5 gals. for \$16.75; 50 gal. drum, \$155.00.

**CUPROCID.** Yellow. An effective fungicide spray. Price, 3 lb. bag, \$2.25.

**CYANOOGAS "A" GRADE.** For moles, rats, gophers, and other rodents. 1 lb., doz., \$7.00; 5 lbs., each, \$3.75; 25 lbs., \$12.50; 100 lbs., \$30.00; 4-oz. tins for ants, doz., \$2.80.

**CYANOOGAS CALCIUM CYANIDE "G."** Greenhouse fumigant. Aphids, white fly, thrips, soft scale, and mealy bug and control for crop-destroying rodents. 5 lbs., \$3.75; 25 lbs., \$12.50; 100 lbs., \$30.00. Write for leaflet; freight prepaid on 100-lb. lots.

**D. N. SULPHUR DUST No. 10.** A new and very effective control for red spider, thrips, and rust diseases on carnations. 10-lb. bag, \$3.50; case of 5 bags, 50 lbs., for \$12.50.

**D. N. DUST No. 12.** For control of red spider, mite and thrips on roses, calla lilies, snapdragons, gardenias and carnations. The active element in D. N. Dust No. 12 is a dinitro compound effective in all stages of mite development. Should be used before blooming period. Per 10-lb. bag, \$4.50; case of 5 10-lb. bags, \$20.00.

**DOWFUME G.** New rapid setting soil fumigant. Especially toxic to Nematodes, eel worms, soil insects, millipedes, centipedes, pill bugs, etc. Permits replanting in 2 to 4 days. No waiting for root galls to decay. Permits one bench fumigation. Not injurious to nearby plants. Easily and economically applied. Water seal is only covering needed. 10 gal. drum, weight 113 lbs., 25c per lb.; 55 gal. drum, weight 597 lbs., 20c per lb.; 55 gal. drum charge \$6.00. Returnable for credit.

**DOWSPRAY 17.** A Dinitro Compound for use as a wet spray to control red mite and thrips. Helps produce better foliage. Protection for roses, carnations, calla lilies, azaleas, snapdragons, gardenias, hydrangeas, etc. Put up in ¾-lb. cans, 9 to a case. Each, \$2.50; per case, \$20.25.

**DX PYRETHRUM.** Scientific Pyrethrum Spray. Per gal., \$10.75.

**D.X. PYRETHRUM-ROTENONE DDT SPRAY.** A concentrated plant spray containing Rotenone-Pyrethrum-DDT in an active glyceride base. Controls sucking and chewing insects. Price 1½ oz. packed 24 to case, \$4.80 per case; 8 oz. packed 24 to a case, price per case, \$18.48; quarts packed 12 to case, per case \$31.80; gallon each, \$10.00; 5 gallons each, \$42.50.

**DOWFUME G APPLICATORS.** Highly satisfactory hand applicators. Adjustable for varied dosages. Will give years of service. Two types—No. 45-F, height 28 in., each, \$20.00; Type 45-AF, height 42 in., price \$20.00.

**EVERCIDE SPRAY.** Contains 17% D.D.T. Price gal., \$6.50.

**FISH-OIL SOAP.** Standard wash for trees and plants where insects and eggs affect bark. Lb., 40c; doz., \$3.50; 7½ lbs., \$2.45.

**FLOWERS OF SULPHUR.** Dusting grade. Lb., 15c; 10 lbs., \$1.00; 50 lbs., \$2.45; 2 bags for \$4.50.

**FORMACIDE FORMALDEHYDE DUST.** Control "damping off" of flower and vegetable seedlings. 1 lb., 85c; 5 lbs., \$2.50; 25 lbs., \$10.00; 50 lbs., \$17.50.

**FORMALDEHYDE LIQUID 40%.** An economical fumigant and disinfectant. Price gal., \$2.90.

**FUME TOBAC.** Fumigating Powder. 25-lb. drum, \$5.00; 50-lb. drum, \$8.75; 100-lb. drum, \$16.25.

**FUNGINE.** New remedy for mildew, rust and other fungus diseases for greenhouse and outdoor use. Pt., 75c; qt., \$1.25; gal., \$3.25.

**GRAPE AND ROSE DUST.** Excellent for the prevention and destruction of mildew on plants. Lb., 40c; 5 lbs., \$1.50; 10 lbs., \$2.75; 25 lbs., \$6.25.

**GRASSELLI S. S. 3 COMBINED SPREADER AND STICKER.** Designed especially for use with agricultural sprays. Pt., 95c; gal., \$6.25; 5 gals., \$29.50.

**L 333. ROTENONE PLANT SPRAY.** Gal., \$10.75; 5 gals. for \$48.75.

**LEMON OIL.** Destroys mealy bug, scale, red spider. ½ pt., 35c; pt., 60c; qt., \$1.00; ½ gal., \$1.75; gal., \$3.00; 5 gals., \$12.00.

**LORO.** A new contact insecticide for controlling aphids, thrips, red spiders, etc. Pt., \$2.00; gal., \$11.00.

**METHYL BROMIDE.** An ideal fumigant for many purposes. For seeds, bulbs and many greenhouse plants. Per lb. can, \$1.15; 10-lb. cylinder, \$7.75. Write for price on larger cylinders.

**NAPHTHOLENE FLAKES.** Price 10 lbs., \$2.25; 25 lbs., \$5.25; 100 lbs., \$16.50.

**NEW IMPROVED CERESAN.** 1-lb. can, 80c; 4 lbs., \$2.70; 40 lbs., \$26.40; 100 lbs., \$61.05.

**NICO-FUME HOLDER.** For 1-lb. size pressure fumigator. "Adaptor" is included for the ½-lb. size. Each, 85c.

**NICO-FUME LIQUID.** For fumigating or spraying; contains 40% nicotine. Lb., \$2.60; 2 lbs., \$3.45; 8 lbs., \$12.55; 40 lbs., \$54.40.

**NICO-FUME PRESSURE FUMIGATOR.** Put up in ½-lb. and 1-lb. cans, powder is now burned under pressure, giving better control of insects. The cans have a sparkler for lighting the powder. ½-lb. cans, 50c; six for \$2.80; doz., \$4.80; 1-lb. cans, 80c; six for \$4.50; doz., \$8.35.

**NICO-ROTE.** A combination of nicotine and rotenone. Kills by contact and fumes. Qt., \$4.00; gal., \$12.00.

**NO-PY-RO.** The new synthetic insecticide for controlling aphids, mealy bug, green and white fly, etc. Per quart, \$3.00; gal., \$10.00; 5 gals., \$45.00.

**No. 10 REFINED ROSE SPECIAL.** For roses and carnations. Kills high percentage of eggs, no discoloring of blooms. Per gal., \$10.00; 5 gals., \$45.00.

**PARIS GREEN.** For chewing insects on potatoes and certain other hardy plants. Kills quickest. ¼-lb. carton, 25c; doz., \$2.00; 1 lb., 60c; 5 lbs., \$2.50; 25 lbs., \$10.75.

**PENETROL.** An activator for nicotine spraying solutions. Qt., 75c; gal., \$1.75; 5 gals., \$6.75.

**PINE TAR.** For tree surgery. Qt., 75c; gal., \$1.50.

**POMO GREEN.** Without nicotine. The new green fungicide for roses and other flowers and ornamentals; will control black spot, mildew and chewing insects. Lb., 55c; doz., \$4.40; 5 lbs., \$1.85; 25 lbs., \$8.50.

**POMO GREEN.** With nicotine. Lb., 80c; doz., \$6.40; 5 lbs., \$3.30; 25 lbs., \$14.75. Write for price on larger quantities.

**RESPIRATORS.** For mild fumigating and dusting. Each, \$2.75.

**SELOCIDE.** For the control of Red Spider. Price gal., \$3.00.

**SULPHUR FOR SPRAYING.** Magnetic spray. Wettable. Goes into suspension in water immediately like colloidal sulphur, at a lower cost. 4 lbs., 60c; 6 for \$3.00; 100 lbs., \$8.75.

**SEMESAN.** The universal seed disinfectant and plant stimulant. Important for control of damping off of seedlings, Gladioli, and disinfection of seed bed soil. ⅓ oz. pkg., doz., 90c; 2 oz., 45c; doz., \$3.60; 12 oz., \$2.10; 4 lbs., \$10.10; 25 lbs., \$58.28; 100 lbs., \$219.80. Write for leaflets, stating for what purpose desired. Write for leaflets on Semesan, Semesan Jr. and Semesan Bel.

**SNAROL With Metaldelhyde.** An insecticide bait to combat snails, cut worms, sow bugs and grasshoppers. 1 lb., 35c; doz., \$2.80; 2½-lb. pkg., 75c; doz., \$6.00; 10 lbs., \$1.85; 50 lbs., \$6.75.

**SPECIAL SEMESAN.** Control for brown patch, dollar spot, etc. in bent lawns. 5 oz. doz., \$5.60; 4 lbs., \$6.92; 25 lbs., \$39.96; 100 lbs., \$149.85.



INSECTICIDE—Continued

**SPECIAL RED ARROW.** A pyrethrum spray for controlling leaf rollers and leaf tyers especially. Per quart, \$5.15; gallon, \$19.00.

**SPERGON SEED PROTECTANT.** 1 oz., 25c; doz., \$2.00; 1lb., \$2.25; 10 lbs., \$18.50; 100 lbs., \$153.00.

**SPERGON WETTABLE GRADE.** 10 lb. drum, \$9.25; 50 lbs., \$43.75; 100 lbs., \$76.50.

**SULPHATE OF IRON.** A remedy for weeds on lawns, kills dandelions without injuring grass. Apply liquid with a fine spray. Particulars on application. 5 lbs., 40c; doz., \$3.20; 10 lbs., 75c; 25 lbs., \$1.60; 100 lbs., \$3.95.

**TARTAR EMETIC.** A spray for the control of Thrip, a life saver for gladiolus growers. 1 lb., 90c; 5 lbs., \$4.25; 25 lbs., \$18.75; 100 lbs., \$70.00.

**THRIP JUICE No. 2.** Destructive for mealy bug, scale, thrip, codlin moth, canker worm, beetles, caterpillars, etc. Pt., 90c; qt., \$1.50; gal., \$5.50.

**TOBACCO DUST (Regular Grade).** 10 lbs., 85c; 25 lbs., \$1.95; 100 lbs., \$4.95.

**TOBACCO STEMS.** 100 lbs., \$2.75; 500 lbs., \$11.50.

**TO-NA-CIDE.** Price 25 lbs., \$5.00; 50 lbs., \$8.00; 100 lbs., \$15.00.

**TRIO-GEN.** Fungicide, insecticide and plant stimulant. A, small kit, makes 16 qts., \$1.50. B, medium kit, makes 64 qts., \$4.00. C, large kit, makes 32 gallons, \$6.00. D, estate kit, makes 128 gallons, \$20.00.

**TRITON B-1956.** An efficient emulsifier and spreader for insecticides and fungicides. Goes much further than ordinary spreader. Per gal., \$9.75.

**VAPOTONE INSECT SPRAY.** Particularly effective against Red Spiders, Aphids, and many other insects; has been approved for use in greenhouses and on nursery stock. ½ gal. each, \$7.75; 1 gal., \$11.90.

**VERMINE.** For eel, cut worms and wire worms working in the soil. Can be applied to all vegetation. Pt., 85c; qt., \$1.25; gal., \$3.25.

**VOLCK.** The Scientific Insecticide for nursery, greenhouse and garden. Controls scale, insects, mealy bug, white flies, red spiders, rust mites, aphids and thrips. Pint, 70c; gal., \$2.50; 5 gals., \$7.50; 28-gal. drum, \$25.00; 54-gal. drum, \$39.00.

**WILSON'S O. K. PLANT SPRAY.** A powerful yet harmless and efficient insecticide for aphids, red spider, mildew, scale, etc. Qt., \$1.00; gal., \$3.00; 5 gals., \$12.00.

**G&O CROW REPELLENT.** ½ pt. retails for 35c; packed 24 to a carton, price per carton, \$5.60; pint retails at 55c. Price per dozen, \$4.40.

**WORM-RID 666+DDT.** A powder which is very effective in controlling most types of soil infesting pests, especially wire worms and symphyllids. Combines for the first time the effective new English discovery Gammexane (666) and DDT. Merely mix into soil and water. Price, 1 lb., 75c; 4 lbs., \$2.00.



**RABBIT REPELLENT.** With safety to all including the rabbits. This 200 mesh fine snuff-like product is impregnated with rain resistant repelling "naturals" so that an application should last several weeks. 5 lb. package will treat 100 to 150 individual plants or 200 to 250 running feet of plant row. Per carton of 24 1-lb. pkgs., \$7.20. Retails for 45c; 5 lb. bag retails for \$1.75. Per carton of 6, \$7.00.

## Protexall Combats All Plant Pests

**PROTEXALL**, introduced by us as a one-shot spray or dust using new post-war insecticides and fungicides to combat almost all insects and plant diseases with one treatment, has been remarkably successful.

### PROTEXALL CONTAINS

**D. D. T.**, which kills most garden insects.

**ROTENONE**, fatal to aphids, bean beetles, and all others which may be unharmed by D. D. T.

**FERMATE**, harmless to all plants, and giving complete protection from many pests which resist other materials.

**SULPHUR**, which deals with most troubles which fermate does not.

Protexall spray is a powder which mixes easily with water. Protexall Dust comes mixed with a spreader and is ready for instant use. It is necessary to order the form you prefer and have the equipment to use, since the spray material does not make an efficient dust, and the dust cannot be used as a spray.

**PROTEXALL SPRAY**, 1 oz. package retails at 40c, price per carton of 24, \$5.76; 4 oz. package retails at \$1.25, per carton of 12, \$9.00; 5 lb. package, \$13.00. 1 oz. will make approximately 4 gallons of spraying solution.

**PROTEXALL DUST**, 1 lb. package retails 95c, price per carton of 24 packages, \$13.68; 4 lb. package retails at \$3.50, per carton of 12, \$25.20; 50 lb. bags each, \$30.00.

## ITEMS YOU CAN SELL

Following popular insecticides are priced in quantity for your use and also in small package assortments for re-sale.

Items below ordered in less than quantity quoted will be billed at a higher rate.

### ROTOTEC WITH 5% D. D. T.

A Rotenone Garden Spray. Contains full amount of Rotenone plus 5% D. D. T. necessary for good insect control. 1-oz. retails for 35c; per carton of 24, \$5.04. 4 oz. bottle retails at \$1.00, price per dozen \$7.20, pint bottle retails at \$2.75, price per dozen \$18.00.

**ACME KOPPER KING.** A scientific copper compound four-times as strong as bordeaux mixture; will not cause bordeaux mixture injury on tomatoes. Lb., 50c; doz., \$4.20; case of 24 pkgs., \$8.04; 4-lb. bag, each, \$1.35; per case of 12 bags, \$11.28.

**ACME GARDEN GUARD SPRAY.** A combination spray for controlling sucking and chewing insects. Can be used as a dust or spray. 1 lb. handy shaker top carton price, 50c; doz., \$4.20; per case of 24 cartons, \$7.70; 4-lb. pkgs., per case of 12, \$12.00.

**ACME RED RIVER POTATO MIX WITH D. D. T.** A special formula for potatoes. 1-lb. bags, doz., \$5.16; carton of 24 bags, \$10.08; 4-lb. bags, \$1.70; six for \$8.64; carton of 12 bags, \$16.80.

**ANT KILLER.** Master ½-oz. bottles, doz., 75c; 2-oz., doz., \$2.00; 4-oz., doz., \$4.00.

**APHIS SPRAY.** A combination of Black Leaf 40 and Fish Oil Soap. Per doz. 3-oz. tubes, \$3.20. Retails at 40c per tube.

**BAIT-M WITH METALDEHYDE.** A double action insect bait for control of Sow Bugs, Cutworms, Grasshopper, etc. 1 lb. package, 35c; carton of 24, \$5.60; 2½ lb. bags, 75c; carton of 12, \$6.00.

**BLACK LEAF 40.** Oz. bottles, doz., \$2.95; carton of 24, \$5.58; 5-oz. bottles, doz., \$8.55; 1 lb., \$2.25 ea.; 2 lbs., \$3.25 ea.; 5 lbs., \$6.50 each. 10 lb. can \$13.95.

**DAWG-GONE.** Protects evergreens from dogs. Per doz. tubes, \$2.40.

**DOGZOFF.** Keep dogs and other animals away from trees, shrubs, evergreens, etc. Bottle, 60c; doz., \$4.80; gross, \$46.08.

**EVERGREEN.** A pyrethrum spray. Price, 1 oz., doz., \$2.80; 6 oz., doz., \$9.25; gals., each, \$12.60.

**GARDEN BUG BLASTER.** New revolutionary garden dust gun containing multipurpose insect and fungus dust for flowers and vegetables. Analysis: 7% copper, ¾% Rotenone, 10% sulphur, and 2% D.D.T. This insecticide is safe to use on vine crops. Eliminates stooping; you can now do your dusting in upright position, blows dust underneath foliage. Retails at \$1.98 each, complete with duster and 2 pounds of above formula. Price per carton of 24, \$29.76.

**BUG BLASTER REFILL.** 2-pound package retails at \$1.29 each. Price per carton of 12, \$9.72.

**McCORMICKS RED ARROW.** Rotenone dust. 2 lb. pkg., 60c; carton of 12 pkgs., \$4.20.

**NICOTINE PYROX.** 20-oz. jars. Doz., \$5.40; carton of 24, \$9.66; 5 lbs., \$2.00; case of 8, \$12.60; 25-lb. drum, \$6.50; 50-lb. drum, \$11.75.

**OPTOX.** A well balanced Rotenone-Pyrethrum spray. 1 oz. bottles retail at 35c each; per dozen, \$2.70; 6 oz. retails \$1.00 each; per dozen, \$8.00. Quarts each \$3.70; gallon each, \$12.00; 5 gallons, \$52.50; 30 gallons, \$255.00; 55 gallons, \$462.00.

**PESTROY 10% DDT INSECT POWDER for Household Use.** Can be applied to plumbing pipes, drains, doorways, baseboards, radiators, closets, cupboards, basements and garbage cans. Can be used on dogs, but must not be used on cats. Kills flies, ants, mosquitoes, roaches, ticks, crickets, moths, bedbugs, wasps, silver fish, gnats, lice, beetles, etc. Put up in finger-flick press cap container, 3 oz. package retails 39c each, per dozen \$3.00; price per carton of 48, \$11.24; 8 oz. pump gun, retails 69c each, per dozen \$5.20; per carton of 24, \$9.94.

**PYROX.** Combination insecticide and fungicide. 25 lbs., \$6.00; 50 lbs., \$9.00.

**ANTU RAT PASTE (5% Antu).** 2 oz. canister retails 35c; price per dozen, \$2.52; 4 oz. tube retails \$1.00; price per dozen, \$7.20.

**RATU (25% Antu).** 2 oz. canister retails 60c, price per dozen \$4.32.

**RED ARROW GARDEN SPRAY ROTENONE.** 1-oz. bottles, carton of 24, \$5.40; 4-oz. bottles, doz., \$8.00; pint, \$2.50; qt., \$3.60; gal., \$12.25; 5 gals., \$57.50.

**SLUG SHOT, Hammond's.** An insecticide for destroying chewing insects. Doz. 1-lb. pkgs. for \$3.25; 5-lb. pkgs., 12 for \$13.68; 25-lb. bag, \$5.50; 50-lb. bag, \$11.00.

**TREE TANGLEFOOT.** 6-oz., case of 24 cans, \$7.20; 1-lb. cans, per doz., \$7.60; per case of 24, \$14.40; 5-lb. can, \$2.95; case of 6, \$16.87; 10lbs., \$5.50 each; case of 4 cans, \$21.00; 25 lbs., \$12.00 each.

**WETTABLE DUSTING SULPHUR.** Put up in attractive 2-lb. cans, which retail at 42c each. Per doz., \$3.24.



## Dust and Pump Guns



**ACME TOMATO DUST PUMP GUN.** Contains basic copper arsenate. The latest improvement in the insecticide field containing a safe arsenical for controlling the tomato worm and the tomato fruit worm as well as the early and late blight and other fungus diseases which infest the tomato plant. Will not cause worm wilt. A full pound in a pump gun duster package ready to use. Retail 65c each. Price, per doz., \$4.92; carton of 24 pkgs., \$9.60; 1 lb. sifter top cans, retail at 50c each, carton of 24, \$7.44.



**ROTENONE GARDEN GUARD PUMP GUN.** The old proven Rotenone insecticide which controls both sucking and eating insects. A full pound in a pump gun duster ready to use. Retail 65c ea. Price, per doz., \$5.25. Carton of 24 pkgs., \$10.20.

### KALITE ROTENONE BUG DUSTER.

This practical, efficient duster bag contains a pound of impregnated Rothenone Dust ¾%. A practical package for dusting Freedom Gardens. Price per carton of 24 1 lb. packages, \$6.24; 4 lb. bags, 12 to a carton, \$9.00 per carton; 25 lb. bags, \$4.50 each.



**RED ARROW.** ¾% Rotenone Dust. 5 lb. bags each, \$1.35; 5 for \$6.25.

## Chlordane, Rivals D. D. T.

**OCTA-KILL.** (Water Base—2½% Chlordane). Especially for household uses. It is a non-staining, non-oily liquid with a delicate cedar aroma. Killing power lasts for weeks. ANTS, cockroaches, flies, water beetles, earwigs, carpet beetles, silverfish, moths destroyed with OCTA-KILL. For plants and flowers dilute OCTA-KILL with five parts water. Pint retails 79c; case of 24, \$11.38; quart retails \$1.39, case of 12, \$10.00; gallon retails \$3.95, case of 4, \$9.48.

**OCTA-KILL EMULSION CONCENTRATE.** (Water Soluble—44% Chlordane). For crop and animal spraying 1 part is mixed with 200 parts water. By allowing a heavier run-off this can be used to spray farm buildings, animal areas, and for household use. Recommended maximum dosage 1 qt. per acre. ½ pints retail \$1.45, case of 24, \$22.62; pints retail \$2.45, case of 24, \$38.22; quarts retail \$4.25, case of 12, \$35.70; gallon jugs retail \$13.95, case of 4, \$44.64; 5-gallon pails, \$12.95.

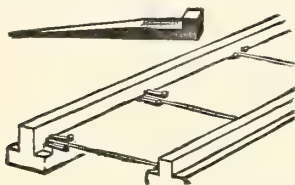
**OCTA-KILL DUST.** (5% Chlordane.) Especially designed for crop dusting. Recommended maximum dosage 20 pounds per acre. 1 lb. Garden Duster, retails \$1.00, case of 24, \$14.00; 5-lb. bags retail \$1.75, case of 10, \$10.50.

## Benzine Hexachloride (B H C)

**B H C 90% WETTABLE POWDER, 30% gamma isomer of Benzene Hexachloride.** Benzene Hexachloride in addition to direct contact action, is a stomach poison and controls thrips, aphids, (plant lice) most types of leaf rollers, beetles, caterpillars, Tarnished Plant Bug and most other worms. Mixed into the soil it has given excellent control of most soil infesting insects, especially wire worms. This material has a somewhat musty odor that will prevail for about a week in a greenhouse, but is quickly lost outdoors. Flowers to be sold within three or four days should not be treated because of odorous residue. 4 lb. bag for \$10.00; 12 bags to a case for \$95.00.

## Wire Stakes and Supplies

**GARLANITE.** The original white glazing compound. Price, 55 gal. drum, \$3.30 per gal.; kegs, 10 and 20 gals, \$3.00 per gal.; 5 gal. cans, \$17.25 gal.; 1 gal. cans, \$3.55; 10 gals. or more prepaid.



**SIEBERT'S IMPROVED.** Easy to drive and made so they will not wedge or crack glass in driving. The head gives a good surface and makes it very easy to drive with a chisel, and the point is very easily pulled out when repairing greenhouse roof. Two sizes, ¾ and ½-inch long, put up in 1 lb. packages. Over 1,500 points in 1-lb. pkg. of ¾; over 1,000 points in 1-lb. pkg. of ½. Price, per lb., 55c; 5 lbs. \$2.50; 20 lbs., \$9.25.

**VITAPLASTIC GREENHOUSE MAINTENANCE PRODUCTS, Vita Bar Seal Paint.** Effectively seals and protects Greenhouse Bars, having excellent durability and adhesion to both bars and glass due to the exclusive use of Vitaloid. Per gallon, \$5.75; 5 gallons, \$27.50.

**Vita Bedding Compound.** An excellent elastic compound for rebedding. Gal., \$4.25; 5-gal. pails, \$19.75.

**PUTTITAPE.** A wonderful new method of glazing new ever soft gum now mounted on tape, made of lead foil to protect it, comes to you in handy rolls. Just unroll on the sash and bars, price, 100 ft., \$3.75; per 1,000 ft., \$30.00.

**GLAZING PUTTY, Gun Grade.** A superior grade which will not dry out and crumble. Seals tight, remains soft and pliable. Gal., \$3.25; 5 gal. can, \$15.50; 30 gal. drum, \$90.00.

**PUTTYROPE.** A great new improvement for glazing and caulking, easy to apply, won't deteriorate, run or get brittle. Put up 500 ft. to a box. Price per box, \$2.50. F. O. B. Pana, Illinois.

**GARLAND WHITE SHADING COMPOUND.** 25 lbs. is equivalent to 2 gals. 25 lbs., \$4.25; 50 lbs., \$7.50; 100 lbs., \$13.50; 200 lbs., \$25.00; 300 lbs., \$35.00; 500 lbs., \$55.00. F. O. B. Chicago or Cleveland, O. 100 lbs. or more, freight prepaid and shipped from factory.

**TAMM'S SHADING COMPOUND.** Save on shading painting. Stays on in rainy weather and is easily removed when no longer needed; none better made. White, per 100 lb. keg, \$9.50; Barrel of 400 lbs., \$29.00. Green, 2c per lb. higher.

### PLANT STAKES—A FULL LINE

Bamboo Stakes, Plain and Green Painted.

F.O.B. Chicago Per F.O.B. New York

Bale of

Green.	Per 100	Per 1000	2000	Per 100	Per 1000
1½ feet...	\$1.00	\$4.25	\$9.25	\$1.00	\$5.00
2 feet...	1.20	6.95	13.50	1.20	7.15
2½ feet...	1.35	8.00	15.80	1.35	8.45
3 feet...	1.65	9.75	18.80	1.65	9.95
3½ feet...	2.00	11.25	22.00	2.00	11.75
4 feet...	2.25	12.50	24.00	2.25	12.75

Natural.

6 feet...	2.50	18.35	....	2.50	18.95
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Write for price in bale lots.

Write for price on Green Painted light and heavy wood stakes.

**Galvanized Steel Wire Stakes.** Far superior to wooden stakes and practically indestructible. We supply largest buyers. Price subject to change without notice. We can also supply 12-gauge stakes, write us for price on quantities, delivered to your nearest freight depot.

**Heavy Tonkin Stakes, Natural Colors.** Heavy weight bamboo. Entire stake same weight, does not taper. Ideal for roses, dahlias, young trees, etc. Just the thing for florists and nurserymen. Lasts a lifetime.

Length	Diameter	F.O.B. New York Per 100	F.O.B. Chicago Per 100
4 ft.	½ to ¾ inch.....	\$8.15	\$8.25
4 ft.	¾ to 1 inch.....	8.50	8.75
5 ft.	¾ to 1 inch.....	9.50	9.00
6 ft.	¾ to 1 inch.....	10.50	10.00
7 ft.	¾ to 1 inch.....	12.50	12.00

### Galvanized Wire Stakes Made of No. 9 Wire

	Per 100	Per 500	Per 1000
4 ft.....	\$3.50	\$15.00	\$29.00
5 ft.....	4.35	19.00	36.50
6 ft.....	5.25	22.00	42.00

We may be in position to furnish smaller sizes about March 1st.

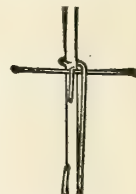
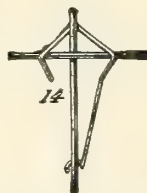
### TWIST-EMS

New handy utility plant ties, deep green color, same shade as foliage of plants. Do not break or come loose. The wire running through the center of tape makes them unbreakable and they cannot come unfastened. Tape protects stem against injury. For tomato plants and other vegetable crops. Price 8 inch per 1,000, \$1.60; 25,000 lots at \$1.50 per 1,000; 12 inch per 1,000, \$2.25; 16 inch per 1,000, \$3.50. Write for prices on larger quantities.



**PLANT TIES, Lighting Wire.** Per box of 1000, \$2.10; 5 or more boxes, \$1.95 per box. Shipping weight per box, 2 lbs.

**CLIP, Blake's New Loop Lever.** For roses, mums, etc., up-to-the-minute stake holders; holds stakes with firm grip. Loop clips allow you to remove and replace any stake any time. They never slip and are a great saving in time and money. Price, \$2.45 per 1,000, 5,000 for \$12.00. Samples mailed free.



**STAKE FASTENERS.** Everlasting packed 500 to a box, per box, \$1.50; 10 boxes or more, \$1.45 each.

**RAFFIA, Natural, Best Grade, F. O. B. Chicago.** Lb., 65c; 5 lb. lots, per lb., 60c; 10 lb. lots, per lb., 58c; 25 lb. lots, per lb., 55c; 100 lb. lots, per lb., 53c. Bale lots about 225 lbs.), per 100 lbs., \$52.00.

**Dyed—Old gold, pink, purple, emerald green, dark red, bright red, black, navy blue, orange.** Per lb., at 95c; 10 lbs. at 90c; 25 lbs. at 80c. Samples on application.



### CUT FLOWER BOXES—WHITE

Full Telescope patent coated.  
24x5x3½.....\$ 8.95 per 100  
30x5x3½.....9.45 per 100  
28x8x5.....14.95 per 100

### WHITE CORSAGE BOXES

9x5x4.....\$6.85 per 100  
12x5x4.....7.25 per 100

Owing to the uncertainty of the manufacturers making deliveries of our regular grade of green cut flower boxes and gray design boxes, we are not offering these in this book. We may be able to furnish some of these boxes and we refer you to our 1943 catalog for sizes. Our price on these boxes would be the same as 1943 unless the manufacturers are permitted to advance our cost.



601 W. Jackson Blvd., Chicago 6, Ill. 47 Barclay St., New York 7, N. Y.

## Florists' Order Blank

Date \_\_\_\_\_ 19\_\_\_\_

NAME.....  
PLEASE USE SAME NAME ON ALL ORDERS TO AVOID CONFUSION IN OUR FILES

Street, P. O. Box  
or Rural Delivery.....

Post Office \_\_\_\_\_ State \_\_\_\_\_  
(City Zone No.)

Express or Freight Office { If different from P. O. } Forward Goods by

(SEND NO CURRENCY UNLESS REGISTERED)

Make Money Orders or Checks Payable to Vaughan's Seed Company

AMOUNT ENCLOSED \$..... When to Ship..... Always write letters on a separate sheet from your order.

VAUGHAN'S SEED COMPANY gives no warranty, express or implied, as to the productiveness of any seeds, bulbs or plants it sells; nor does it warrant fertilizers other than in respect to data required of the seller by statutes. It is expressly agreed that the limit of liability for all claims for loss or damages due to any cause shall be in a sum no greater than the invoice price of the goods and in no case shall it be responsible for loss or damage of the crop.

This space for office use only.	Filled by	Flower <input type="checkbox"/>	Flower 2 <input type="checkbox"/>	Veg. <input type="checkbox"/>	Veg. 2	Grass <input type="checkbox"/>	Bulb <input type="checkbox"/>	Sup. <input type="checkbox"/>	Fert. <input type="checkbox"/>
	Date								
	Checked								
	No. Pkgs.								

[illegible]

(OVER)







# CHEMICAL WEED KILLER

## NEW DANDYKILL WITH NITROGEN

Careful tests of Dandykill, the dry, soluble form of the miracle weed killer 2,4D have developed these important facts:

1—That chemical nitrogen in the Dandykill solution will stimulate growth so grass quickly spreads to vacant spaces left by dying weeds.  
2—That Dandykill at normal strength destroys many seeds of crab grass and kills small crab grass plants.

3—That Dandykill one-half recommended strength used on bent greens and lawns, kills most weeds without injuring the grass, though occasional brief discoloration may result.

Size	Treats	Retails	Per Doz.
2 oz.	800 sq. ft.	\$ 0.50	\$ 3.60
6 oz.	2,500 sq. ft.	1.00	7.20
24 oz.	10,000 sq. ft.	3.00	21.60
6 lbs.	One acre	10.00	72.00

## CONCENTRATED DANDYKILL

For use on large areas, Dandykill is offered in a special concentrated form, 70 percent 2,4D, without nitrogen saves shipping costs when quantities are used. Shipped F. O. B. Chicago or New York.

Size	Area Treated	Retail Price	Dealer's Price
10 lbs.	4 acres	\$ 19.50	\$13.25
50 lbs.	20 acres	87.50	66.50

**DANDY KILL DUST, 2, 4-D in Dust Form.** Will control most lawn weeds by merely dusting them, using the handy "shaker" top dust canister. Dandy-Kill users will welcome this form. 12 oz. shaker top can 75c. Carton of 12, \$5.40.

**IVY-KILL** is a special form of 2, 4D, Isopropyl Ester 40% 2-4D acid equivalent, that is offered for use on trees, shrubs and plants with hard-to-wet, waxy foliage, including poison ivy, poison oak, poison hemlock, sumac, birch, choke-cherry, wild rose, thorny brier.

Size	Area Treated	Prepaid Price
4 oz.	1,400 sq. ft.	\$0.80
1 pt.	$\frac{1}{8}$ acre	2.00
1 qt.	$\frac{1}{4}$ acre	3.50
1 gal.	1 acre	\$12.00, by exp. collect.

## SEL-TOX

### NEW SELECTIVE CRAB GRASS KILLER

It contains phenol mercuric acetate solubilized, which has been proved in exhaustive tests to kill crab grass without injuring desirable lawn grasses. It can be used at any stage of growth, from the

seedling stage to maturity, with equal effectiveness. Though a poison, it is mixed with water 100 times its bulk, and is easily handled with safety at all stages. Apply with watering can or sprayer. Complete directions on each bottle.

Quantity	Area Treated	Retail Price
8 oz.	1,000 sq. ft.	\$1.00 Per Doz., \$ 7.20
16 oz.	2,000 sq. ft.	1.50 Per Doz., 10.80
Quart	4,000 sq. ft.	2.50 Per Doz., 18.00
Gallon	16,000 sq. ft.	\$8.00 by exp. collect.

**ZOTOX CRAB GRASS KILLER.** An amazing new killer which kills both the seeds and plants of Crab Grass (Waner Grass) in lawns. Prevents recurrence the following year. Not toxic to soil. Must be applied in fall. 1 lb. treats 1000 to 2000 sq. ft. Price, 8 oz., each, \$1.00; doz., \$7.20; 16 oz., \$1.50; doz., \$10.80; 5 lbs., \$3.50.

## DUPONT AMMATE WEED KILLER

(Ammonium Sulfamate). A non-poisonous weed killer which can be applied by hand or power sprayer or can be applied dry. Will kill poison ivy, poison oak, poison sumac, dandelions and plantain. Use  $\frac{3}{4}$  to 1 lb. to a gallon of water. Price, 2 lb. bottle, 85c; 6 lb. jar, \$2.25; 50 lb. drum, \$12.00.

## HERBICIDE



For ordinary grass and weeds, each part of Herbicide may be diluted with forty to fifty parts of water. One gallon will cover app. 2,500 sq. ft. Herbicide is a poison. Livestock should be kept off the treated ground until the dead leaves wither away. Qt., 75c; gal., \$1.50; 5 gals., \$6.00; 10 gals., \$10.00; 55 gals., \$35.00.

It kills the plant under ground as well as above ground. Does not irritate skin and does not corrode metal or spray equipment. Will not leave residue on plants that is hazardous to livestock or pets. Does not sterilize the soil. Mix one part to sixty parts of water. Will kill Poison Ivy, Bindweed (Morning Glory), Ragweed, Burdock, Dandelion, Plantain, etc. Price, 6 oz., retails, 75c; per case of 36, \$16.20; per quart, \$2.50; per case of 12, \$18.00; gallon, \$7.50; per case of 4, \$21.00; 5 gals., \$25.00; 54 gals., \$256.50.

# WEEDONE

TRADE MARK

# Paper White Display

## Vaughan's Paper White Display Box as Illustrated, together with

100 Bags, each holding 3 bulbs, 13-14 ctm., (300 bulbs)	\$14.50
100 Bags, each holding 3 bulbs, 14-15 ctm., (300 bulbs)	17.00
100 Bags, each holding 3 bulbs, 15-16 ctm., (300 bulbs)	20.00



Paper White Display Box, 10x20 inches, Holding 100 Illustrated Bags

EVERY customer who enters your store is a prospect for a sale of Paper White narcissus bulbs. Here is a carefully designed, thoroughly tested method of displaying and selling them at a minimum of trouble and expense and the maximum of profit.

Florists cannot afford to sell inferior bulbs. Vaughan's bulbs of 13-14 ctm. circumference and up are of flowering size and highest quality. Three bulbs are enclosed in an illustrated bag which prevents picking over of the individual bulbs, injurious handling and resultant waste. Every bulb we ship you can be sold at a profit.

Our Paper White display box, specially reinforced, decorated in black, red and green, will harmonize with your store display and sell its contents. It occupies 10 by 20 inches space, and one filling provides \$29 to \$40 sales at 100% profit. Why let chain stores get sales which should be yours?





# P A N S I E S

## **Vaughan's Super Maple Leaf Mixture (Canadian Giants)**

A selection of the distinct variety Maple Leaf Giants we introduced some years ago. Having large leaves of a rich dark green and flowers of gigantic size of heavy substance with good stems in a beautiful color range; plants of compact and sturdy growth.

Trade pkt., 90c;  $\frac{1}{8}$  oz., \$1.75;  $\frac{1}{4}$  oz., \$3.00; oz., \$10.00.